CDX-GT610U/GT616U/ GT617UE

SERVICE MANUAL

Ver. 1.1 2007.03

AEP Model
UK Model
CDX-GT610U/GT616U
East European Model
CDX-GT617UE

(Photo: CDX-GT610U)

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT410U/GT414U
CD Drive Mechanism Type	MG-101U-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	120 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	CDX-GT610U/GT616U: 87.5 – 108.0 MHz CDX-GT617UE: FM1/FM2: 87.5 – 108.0 MHz (at 50 kHz step) FM3: 65 – 74 MHz (at 30 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV, LW: 40 µV

USB player section

Interface	USB (Full-speed)
Maximum current	500 mA

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W × 4 (at 4 ohms)

– Continued on next page –

FM/MW/LW COMPACT DISC PLAYER

9-887-473-02
2007C04-1
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Sony Corporation
eVehicle Division
Published by Sony Techno Create Corporation

SONY®

General

Outputs	Audio outputs terminal (front/rear)
	Subwoofer output terminal (mono)
	Power antenna relay control terminal
	Power amplifier control terminal
Inputs	Telephone ATT control terminal
	Illumination control terminal
	BUS control input terminal
	BUS audio input terminal/AUX IN terminal
	Remote controller input terminal
	Antenna input terminal
Tone controls	Low: ±10 dB at 60 Hz (XPLOD)
	Mid: ±10 dB at 1 kHz (XPLOD)
	High: ±10 dB at 10 kHz (XPLOD)
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 180 mm
	(7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm
	(7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.3 kg (3 lb. 5 oz.)
Supplied accessories	Card remote commander: RM-X151
	Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

US and foreign patents licensed from Dolby Laboratories.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

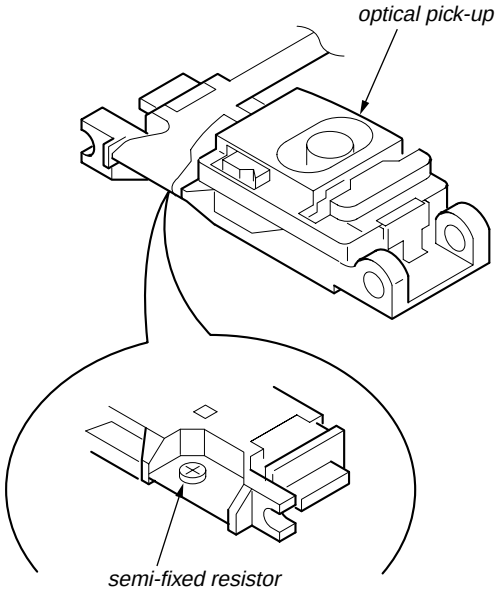
Please use the following test discs for the check on the CD section.

YDES-18 (Part No. 3-702-101-01)
PATD-012 (Part No. 4-225-203-01)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior.

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

- **CD playback**
  You can play CD-DA (also containing CD TEXT*), CD-R/CD-RW (MP3/WMA/AAC files also containing Multi Session) and ATRAC CD (ATRAC3 and ATRAC3plus format).

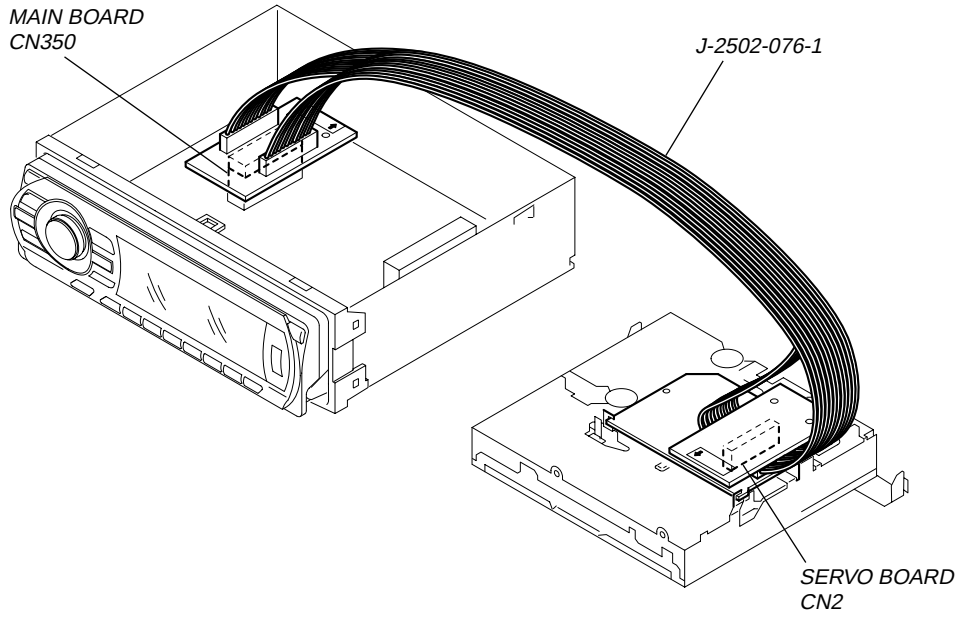
Type of discs	Label on the disc
CD-DA	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc DIGITAL AUDIO ReWritable
MP3 WMA AAC ATRAC CD	COMPACT disc DIGITAL AUDIO Recordable / COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable / COMPACT disc ReWritable

* A CD TEXT disc is a CD-DA that includes information such as disc, artist and track name.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CN350) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

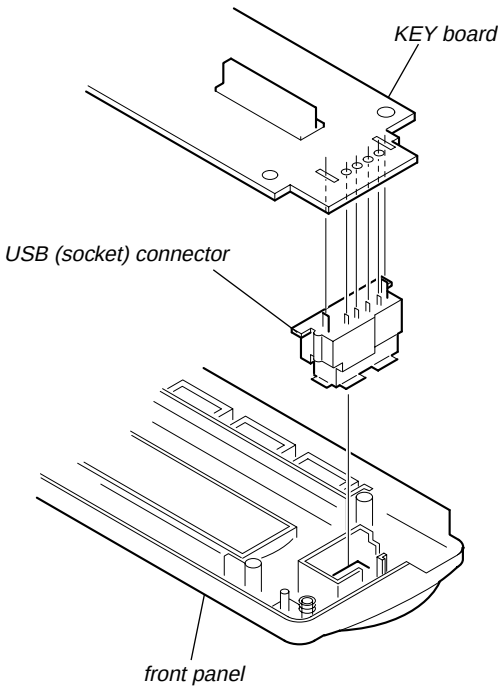
NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1206-357-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR REPLACEMENT OF THE USB CONNECTOR (J11)

To replace the USB connector requires alignment.

1. Insert the USB connector into the front panel.
2. Place the KEY board on the front panel and align the terminals of the USB connector with the holes in the KEY board.
3. Solder the four terminals of the connector.



NOTE FOR THE 20-PIN CONNECTOR (CN901)

Do not use alcohol to clean the 20-pin connector (CN901) connecting the front panel with the main body.
Do not touch the connector directly with your bare hand. Poor contact may be caused.

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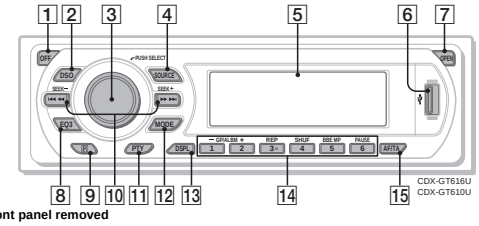
SECTION 1
GENERAL

This section is extracted from instruction manual.

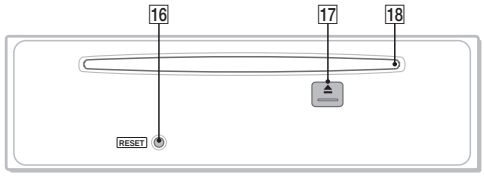
• LOCATION OF CONTROLS
• CDX-GT610U/GT616U

Location of controls and basic operations

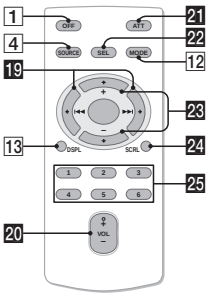
Main unit



Front panel removed



Card remote commander RM-X151



Refer to the pages listed for details. The corresponding buttons on the card remote commander control the same functions as those on the unit.

1 **OFF button**
To power off; stop the source.

2 **DSO button** 4
To select the DSO mode (1, 2, 3 or OFF). The larger the number, the more enhanced the effect.

3 **Volume control dial/select button** 12
To adjust volume (rotate); select setup items (press and rotate).

4 **SOURCE button**
To power on; change the source (Radio/CD/MD*1/USB/AUX).

5 **Display window**

6 **USB terminal** 11
To connect to the USB device.

7 **OPEN button** 5

8 **EQ3 (equalizer) button** 12
To select an equalizer type (XPLOD, VOCAL, EDGE, CRUISE, SPACE, GRAVITY, CUSTOM or OFF).

9 **Receptor for the card remote commander**

10 **SEEK –/+ buttons**
CD/MD*1/USB*2:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

11 **PTY (Program Type) button** 10
To select PTY in RDS.

12 **MODE button** 8, 11, 13
To select the radio band (FM/MW/LW); select the unit*3; select the play mode*4.

13 **DSPL (display) button** 8, 9, 11
To change display items.

14 **Number buttons**
CD/MD*1/USB*2:
①/②: **GP*5/ALBM***6 –/+
To skip albums (press); skip albums continuously (press and hold).*7
③: **REP** 8, 11, 13
④: **SHUF** 8, 11, 13
⑤: **BBE MP***8 2
To activate the BBE MP function, set "BBE MP-ON." To cancel, set "BBE MP-OFF."
⑥: **PAUSE***8
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).

15 **AF (Alternative Frequencies)/TA (Traffic Announcement) button** 9
To set AF and TA in RDS.

16 **RESET button** 4

17 **⏏ (eject) button** 5
To eject the disc.

18 **Disc slot** 5
To insert the disc.

The following buttons on the card remote commander have also different buttons/functions from the unit. Remove the insulation film before use (page 4).

19 **⬅ (I◀◀)/➡ (▶▶I) buttons**
To control CD/radio/MD/USB, the same as (SEEK) –/+ on the unit.

20 **VOL (volume) +/– button**
To adjust volume.

21 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

22 **SEL (select) button**
The same as the select button on the unit.

23 **⬆ (+)/⬇ (–) buttons**
To control CD, the same as ①/② (GP/ALBM –/+) on the unit.

24 **SCRL (scroll) button** 8, 11
To scroll the display item.

25 **Number buttons**
To receive stored stations (press); store stations (press and hold).

*1 *When an MD changer is connected.*
*2 *When a USB device is connected.*
*3 *When a CD/MD changer is connected.*
*4 *When an ATRAC Audio Device is connected.*
*5 *When an ATRAC CD is played.*
*6 *When an MP3/WMA/AAC is played.*
*7 *If the changer/USB is connected, the operation is different, see page 13.*
*8 *When playing back on this unit and a USB device.*

Notes
- *When ejecting/inserting a disc, keep any USB devices disconnected to avoid damage to the disc.*
- *If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.*

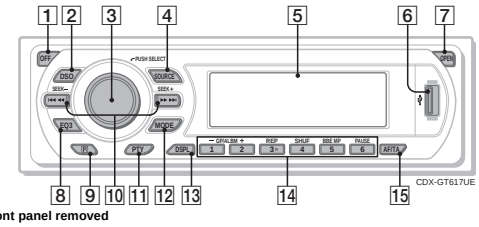
Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 17.

About USB cap
When not using the USB terminal (6), use the supplied USB cap to prevent dust or dirt entering. Keep the USB cap out of the reach of children to prevent accidental swallowing.

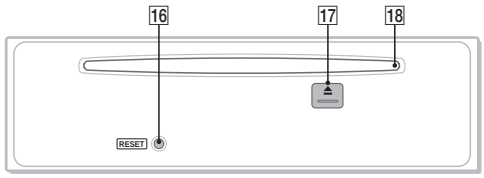
• CDX-GT617UE

Location of controls and basic operations

Main unit



Front panel removed



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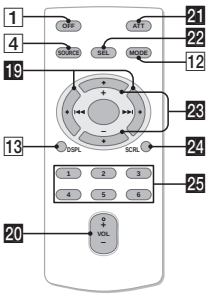

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About USB cap
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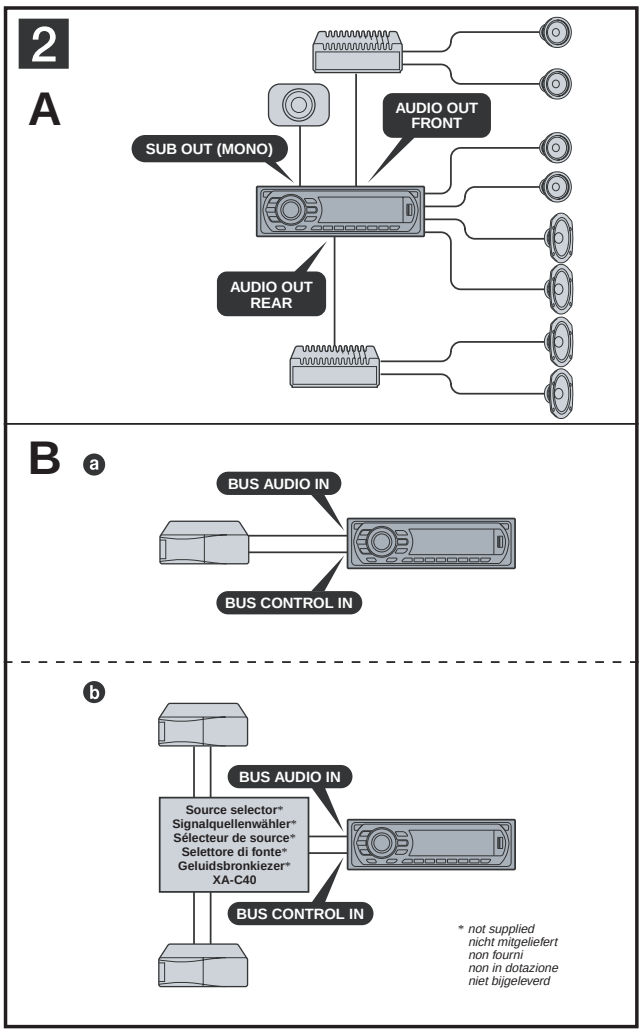
• CONNECTIONS
• CDX-GT610U/GT616U



Connection example 2

***Notes* (2-A)**
- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

***Tip* (2-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

Anschlussbeispiel 2

***Hinweise* (2-A)**
- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Der Warnton wird nur ausgegeben, wenn der integrierte Verstärker verwendet wird.*

***Tipp* (2-B-b)**
Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der Signalquellenwähler XA-C40 (nicht mitgeliefert) benötigt.

Exemple de raccordement 2

***Remarques* (2-A)**
- *Raccordez d'abord le câble de mise à la masse avant de connecter l'amplificateur.*
- *L'alarme est émise uniquement lorsque l'amplificateur intégré est utilisé.*

***Conseil* (2-B-b)**
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C40 (non fourni) est indispensable.

Esempio di collegamento 2

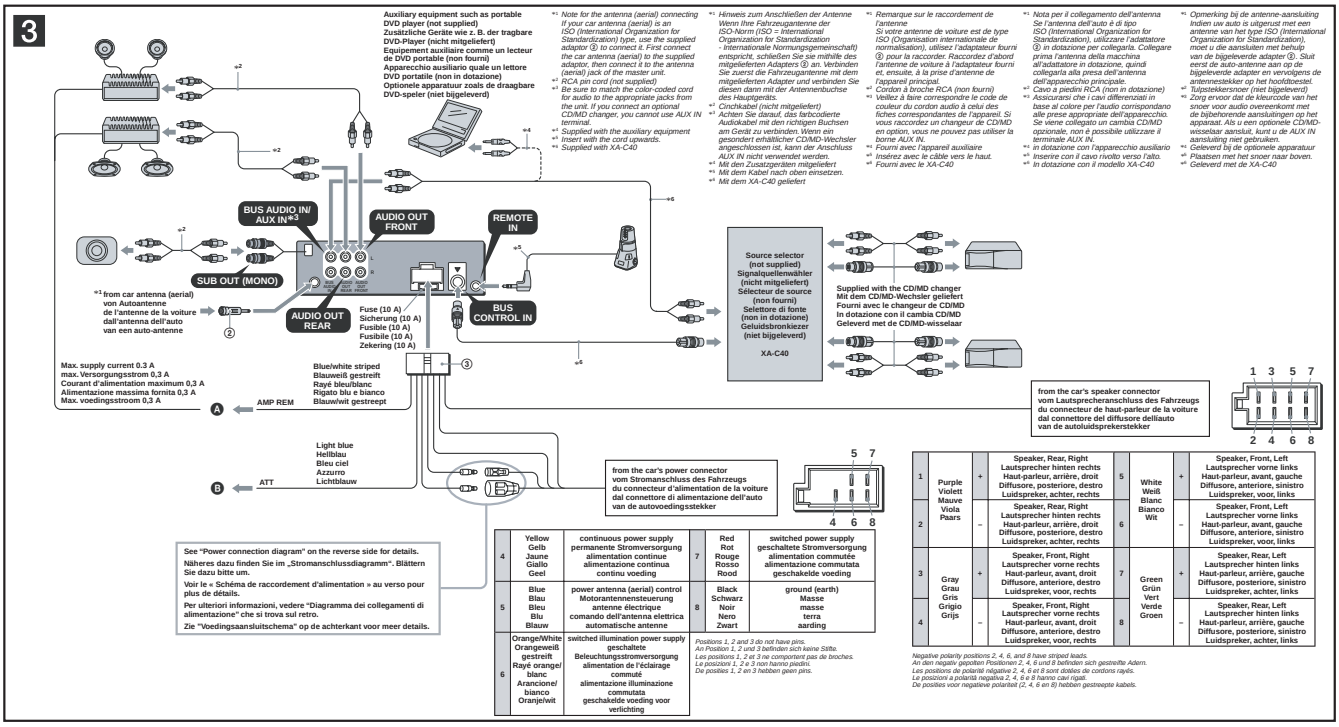
***Note* (2-A)**
- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *L'allarme viene emesso solo se è in uso l'amplificatore incorporato.*

***Suggerimento* (2-B-b)**
Per collegare due o più cambia CD/MD, occorre utilizzare il selettore di fonte XA-C40 (non in dotazione).

Voorbeeldaansluitingen 2

***Opmerkingen* (2-A)**
- *Sluit eerst de aarddraad aan voordat u de versterker aansluit.*
- *U hoort de pieptoon alleen als de ingebouwde versterker wordt gebruikt.*

***Tip* (2-B-b)**
Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de geluidsbronkiezer XA-C40 (niet bijgeleverd) nodig.


3
Auxiliary equipment such as portable DVD player (not supplied)
Zusätzliche Geräte wie z. B. der tragbare DVD-Player (nicht mitgeliefert)
Equipement auxiliaire comme un lecteur de DVD portable (non fourni)
Apparecchio ausiliario quale un lettore DVD portatile (non in dotazione)
Optionele apparatuur zoals de draagbare DVD-speler (niet bijgeleverd)
BUS AUDIO IN/ AUX IN*2
AUDIO OUT FRONT
REMOTE IN
SUB OUT (MONO)
AUDIO OUT REAR
BUS CONTROL IN
*1 from car antenna (aerial)
von Autoantenne
de l'antenne de la voiture
dall'antenna dell'auto
van een auto-antenne
Fuse (10 A)
Sicherung (10 A)
Fusible (10 A)
Fusibile (10 A)
Zekering (10 A)
Max. supply current 0.3 A
max. Versorgungsstrom 0,3 A
Courant d'alimentation maximum 0,3 A
Alimentazione massima fornita 0,3 A
Max. voedingsstroom 0,3 A
Blue/white striped
Blauweiß gestreift
Rayé bleu/blanc
Rigato blu e bianco
Blauw/wit gestreept
AMP REM
Light blue
Hellblau
Bleu ciel
Azzurro
Lichtblauw
ATT
Source selector (not supplied)
Signalquellenwähler (nicht mitgeliefert)
Sélecteur de source (non fourni)
Selettore di fonte (non in dotazione)
Geluidsbronkiezer (niet bijgeleverd)
XA-C40
Supplied with the CD/MD changer
Mit dem CD/MD-Wechsler geliefert
Fourni avec le changeur de CD/MD
In dotazione con il cambia CD/MD
Geleverd met de CD/MD-wisselaar
from the car's speaker connector
vom Lautsprecheranschluss des Fahrzeugs
du connecteur de haut-parleur de la voiture
dal connettore del diffusore dell'auto
van de autoluidsprekerstekker
from the car's power connector
vom Stromanschluss des Fahrzeugs
du connecteur d'alimentation de la voiture
dal connettore di alimentazione dell'auto
van de autovoedingsstekker
See "Power connection diagram" on the reverse side for details.
Näheres dazu finden Sie im „Stromanschlussdiagramm". Blättern Sie dazu bitte um.
Voir le « Schéma de raccordement d'alimentation » au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.
4 Yellow / Gelb / Jaune / Giallo / Geel — continuous power supply / permanente Stromversorgung / alimentation continue / alimentazione continua / continu voeding
5 Blue / Blau / Bleu / Blu / Blauw — power antenna (aerial) control / Motorantennensteuerung / antenne électrique / comando dell'antenna elettrica automatiche antenne
6 Orange/White / Orangeweiß gestreift / Rayé orange/blanc / Arancione/bianco / Oranje/wit — switched illumination power supply / geschaltete Beleuchtungsstromversorgung / alimentation de l'éclairage commuté / alimentazione illuminazione commutata / geschakelde voeding voor verlichting
7 Red / Rot / Rouge / Rosso / Rood — switched power supply / geschaltete Stromversorgung / alimentation commutée / alimentazione commutata / geschakelde voeding
8 Black / Schwarz / Noir / Nero / Zwart — ground (earth) / Masse / masse / terra / aarding
Positions 1, 2 and 3 do not have pins.
An Position 1, 2 und 3 befinden sich keine Stifte.
Les positions 1, 2 et 3 ne comportent pas de broches.
La posizioni 1, 2 e 3 non hanno piedini.
De posities 1, 2 en 3 hebben geen pins.
1 Purple / Violett / Mauve / Viola / Paars — + Speaker, Rear, Right / Lautsprecher hinten rechts / Haut-parleur, arrière, droit / Diffusore, posteriore, destro / Luidspreker, achter, rechts
2 — – Speaker, Rear, Right / Lautsprecher hinten rechts / Haut-parleur, arrière, droit / Diffusore, posteriore, destro / Luidspreker, achter, rechts
3 Gray / Grau / Gris / Grigio / Grijs — + Speaker, Front, Right / Lautsprecher vorne rechts / Haut-parleur, avant, droit / Diffusore, anteriore, destro / Luidspreker, voor, rechts
4 — – Speaker, Front, Right / Lautsprecher vorne rechts / Haut-parleur, avant, droit / Diffusore, anteriore, destro / Luidspreker, voor, rechts
5 White / Weiß / Blanc / Bianco / Wit — + Speaker, Front, Left / Lautsprecher vorne links / Haut-parleur, avant, gauche / Diffusore, anteriore, sinistro / Luidspreker, voor, links
6 — – Speaker, Front, Left / Lautsprecher vorne links / Haut-parleur, avant, gauche / Diffusore, anteriore, sinistro / Luidspreker, voor, links
7 Green / Grün / Vert / Verde / Groen — + Speaker, Rear, Left / Lautsprecher hinten links / Haut-parleur, arrière, gauche / Diffusore, posteriore, sinistro / Luidspreker, achter, links
8 — – Speaker, Rear, Left / Lautsprecher hinten links / Haut-parleur, arrière, gauche / Diffusore, posteriore, sinistro / Luidspreker, achter, links
Negative polarity positions 2, 4, 6, and 8 have striped leads.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.

*1 Note for the antenna (aerial) connecting
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor Ⓑ to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
*2 RCA pin cord (not supplied)
*3 Be sure to match the color-coded cord for audio to the appropriate jacks from the unit. If you connect an optional CD/MD changer, you cannot use AUX IN terminal.
*4 Supplied with the auxiliary equipment
*5 Insert with the cord upwards.
*6 Supplied with XA-C40

*1 Hinweis zum Anschließen der Antenne
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters Ⓑ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 Cinchkabel (nicht mitgeliefert)
*3 Achten Sie darauf, das farbcodierte Audiokabel mit den richtigen Buchsen am Gerät zu verbinden. Wenn ein gesondert erhältlicher CD/MD-Wechsler angeschlossen ist, kann der Anschluss AUX IN nicht verwendet werden.
*4 Mit den Zusatzgeräten mitgeliefert
*5 Mit dem Kabel nach oben einsetzen.
*6 Mit dem XA-C40 geliefert

*1 Remarque sur le raccordement de l'antenne
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓑ pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 Cordon à broche RCA (non fourni)
*3 Veillez à faire correspondre le code de couleur du cordon audio à celui des fiches correspondantes de l'appareil. Si vous raccordez un changeur de CD/MD en option, vous ne pouvez pas utiliser la borne AUX IN.
*4 Fourni avec l'appareil auxiliaire
*5 Insérez avec le câble vers le haut.
*6 Fourni avec le XA-C40

*1 Nota per il collegamento dell'antenna
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore Ⓑ in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 Cavo a piedini RCA (non in dotazione)
*3 Assicurarsi che i cavi differenziati in base al colore per l'audio corrispondano alle prese appropriate dell'apparecchio. Se viene collegato un cambia CD/MD opzionale, non è possibile utilizzare il terminale AUX IN.
*4 in dotazione con l'apparecchio ausiliario
*5 Inserire con il cavo rivolto verso l'alto.
*6 In dotazione con il modello XA-C40

*1 Opmerking bij de antenne-aansluiting
Indien uw auto is uitgerust met een antenne van het type ISO (International Organization for Standardization), moet u de aansluiten met behulp van de bijgeleverde adapter Ⓑ. Sluit eerst de auto-antenne aan op de bijgeleverde adapter en vervolgens de antennesteekker op het hoofdtoestel.
*2 Tulpstekersnoer (niet bijgeleverd)
*3 Zorg ervoor dat de kleurcode van het snoer voor audio overeenkomt met de bijbehorende aansluitingen op het apparaat. Als u een optionele CD/MD-wisselaar aansluit, kunt u de AUX IN aansluiting niet gebruiken.
*4 Geleverd bij de optionele apparatuur
*5 Plaatsen met het snoer naar boven.
*6 Geleverd met de XA-C40

Connection diagram 3

Ⓐ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.
Ⓑ **To the interface cable of a car telephone**

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power connecting lead Ⓐ may damage the antenna (aerial).

Notes on the control power and suppy leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Anschlussdiagramm 3

Ⓐ **An AMP REMOTE IN des gesondert erhältlichen Endverstärkers**
Dieser Anschluss ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.
Ⓑ **An Schnittstellenkabel eines Autotelefons**

Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel Ⓐ die Antenne beschädigt werden.

Hinweise zu den Steuer- und Stromversorgungsleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/ Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprechergehäuse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschuadigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Hinweis zum Anschließen
Wenn Lautsprecher und Verstärker nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass Lautsprecher und Verstärker richtig angeschlossen sind.

Schémas de raccordement 3

Ⓐ **Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif**
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
Ⓑ **Vers le cordon de liaison d'un téléphone de voiture**

Avertissement

Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni Ⓐ risque d'endommager l'antenne.

Remarques sur les câbles de commande et d'alimentation
- *Le câble de commande (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (informations de circulation).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW (GO)LW (PO) intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le câble de commande d'antenne jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.*
- *Pour éviter tout problème de fonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les enceintes et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les enceintes et l'amplificateur sont raccordés correctement.

Schema di collegamento 3

Ⓐ **A AMP REMOTE IN di un amplificatore di potenza opzionale**
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.
Ⓑ **Al cavo di interfaccia di un telefono per auto**

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione Ⓐ, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

Note sui cavi di controllo e di alimentazione
- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Nota sui collegamenti
Se l'amplificatore e il diffusore non sono collegati correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che l'amplificatore e il diffusore siano collegati correttamente.

Aansluitschema 3

Ⓐ **Naar AMP REMOTE IN van een optionele eindversterker**
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het apparaat worden beschadigd.
Ⓑ **Naar het interface-snoer van een autotelefoon**

Waarschuwing

Indien u een elektrische antenne hebt zonder relaiskast, kan het aansluiten van dit apparaat met het bijgeleverde netsnoer Ⓐ de antenne beschadigen.

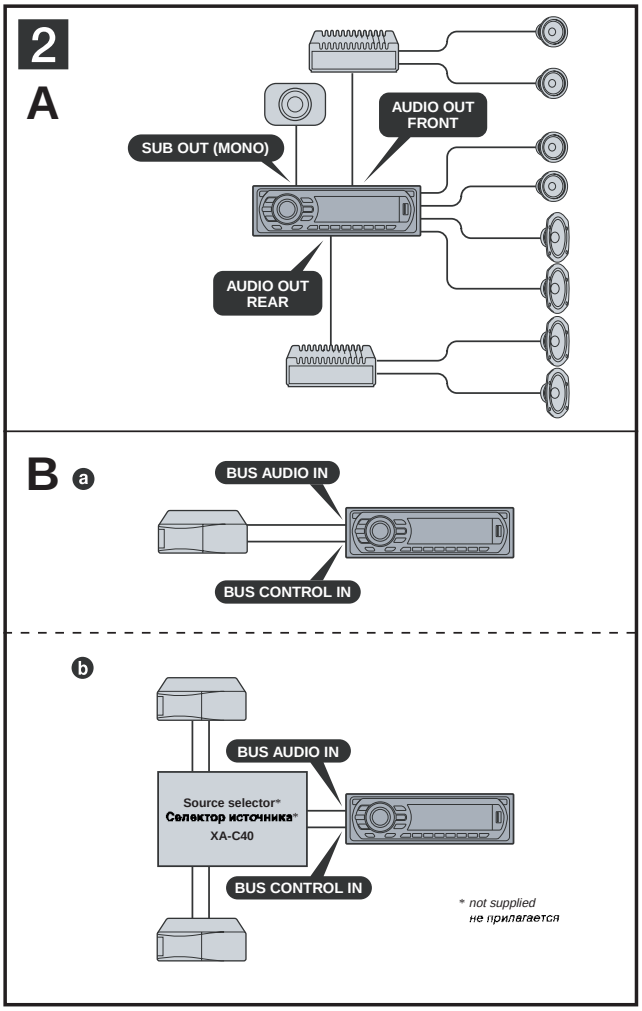
Opmerkingen over de bedienings- en voedingskabels
- *De antennevoedingskabel (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF- (Alternative Frequency) of TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/zijruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaiskast te gebruiken.*

Instandhouden van het geheugen
Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als u dit niet doet, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.*
- *Verbind de aarddraad van dit apparaat niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter- en linkerluidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

Opmerking over aansluiten
Als de luidspreker en versterker niet correct zijn aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker en versterker correct zijn aangesloten.

• **CDX-GT617UE**



Connection example 2

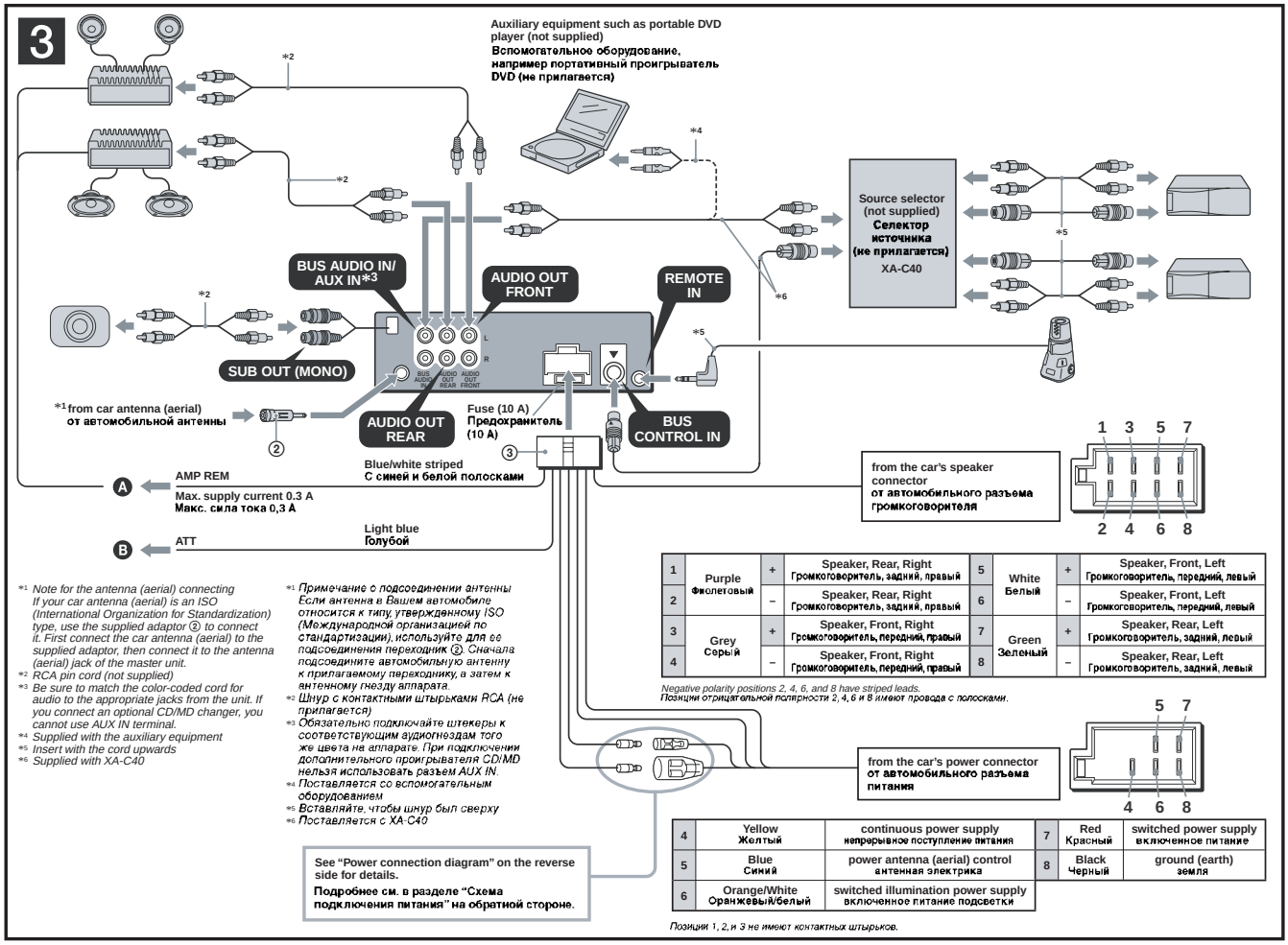
Notes **(2-A)**
- *Be sure to connect the ground (earth) lead before connecting the amplifier.*
- *The alarm will only sound if the built-in amplifier is used.*

Tip **(2-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C40 (not supplied) is necessary.

Пример подсоединения 2

Примечания **(2-A)**
- *Прежде чем подключать аппарат к усилителю, обязательно подсоедините провод заземления.*
- *Звуковой сигнал будет воспроизводиться только в том случае, если используется встроенный усилитель.*

Совет **(2-B-b)**
При подсоединении двух или более проигрывателей CD/MD потребуется селектор источника XA-C40 (не прилагается).


3
Auxiliary equipment such as portable DVD player (not supplied)
Вспомогательное оборудование, например портативный проигрыватель DVD (не прилагается)
Source selector (not supplied)
Селектор источника (не прилагается)
XA-C40
BUS AUDIO IN/ AUX IN*3
AUDIO OUT FRONT
REMOTE IN
SUB OUT (MONO)
AUDIO OUT REAR
BUS CONTROL IN
Fuse (10 A)
Предохранитель (10 A)
*1 from car antenna (aerial)
от автомобильной антенны
AMP REM
Max. supply current 0.3 A
Макс. сила тока 0,3 А
Blue/white striped
С синей и белой полосками
ATT
Light blue
Голубой
from the car's speaker connector
от автомобильного разъема громкоговорителя
from the car's power connector
от автомобильного разъема питания
See "Power connection diagram" on the reverse side for details.
Подробнее см. в разделе "Схема подключения питания" на обратной стороне.

1	Purple Фиолетовый	+	Speaker, Rear, Right Громкоговоритель, задний, правый	5	White Белый	+	Speaker, Front, Left Громкоговоритель, передний, левый
2		–	Speaker, Rear, Right Громкоговоритель, задний, правый	6		–	Speaker, Front, Left Громкоговоритель, передний, левый
3	Grey Серый	+	Speaker, Front, Right Громкоговоритель, передний, правый	7	Green Зеленый	+	Speaker, Rear, Left Громкоговоритель, задний, левый
4		–	Speaker, Front, Right Громкоговоритель, передний, правый	8		–	Speaker, Rear, Left Громкоговоритель, задний, левый

Negative polarity positions 2, 4, 6, and 8 have striped leads.
Позиции отрицательной полярности 2, 4, 6 и 8 имеют провода с полосками.

4	Yellow Желтый	continuous power supply непрерывное поступление питания		7	Red Красный	switched power supply включенное питание	
5	Blue Синий	power antenna (aerial) control антенная электрика		8	Black Черный	ground (earth) земля	
6	Orange/White Оранжевый/белый	switched illumination power supply включенное питание подсветки					

Позиции 1, 2, и 3 не имеют контактных штырьков.

*1 *Note for the antenna (aerial) connecting*
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ② to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.
*2 *RCA pin cord (not supplied)*
*3 *Be sure to match the color-coded cord for audio to the appropriate jacks from the unit. If you connect an optional CD/MD changer, you cannot use AUX IN terminal.*
*4 *Supplied with the auxiliary equipment*
*5 *Insert with the cord upwards*
*6 *Supplied with XA-C40*

*1 *Примечание о подсоединении антенны*
Если антенна в Вашем автомобиле относится к типу, утвержденному ISO (Международной организацией по стандартизации), используйте для её подсоединения переходник ②. Сначала подсоедините автомобильную антенну к прилагаемому переходнику, а затем к антенному гнезду аппарата.
*2 *Шнур с контактными штырьками RCA (не прилагается)*
*3 *Обязательно подключайте штекеры к соответствующим аудиогнездам того же цвета на аппарате. При подключении дополнительного проигрывателя CD/MD нельзя использовать разъем AUX IN.*
*4 *Поставляется со вспомогательным оборудованием*
*5 *Вставляйте, чтобы шнур был сверху*
*6 *Поставляется с XA-C40*

Connection diagram 3

Ⓐ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

Ⓑ **To the interface cable of a car telephone**

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Схема подсоединения 3

Ⓐ **Подключение к входу AMP REMOTE IN дополнительного усилителя мощности**
Этот вариант подключения используется только для усилителей. Подключение любой другой системы может привести к повреждению аппарата.

Ⓑ **К интерфейсному кабелю автомобильного телефона**

Предостережение

Если Вы используете антенну с электрическим приводом без релейного блока, подсоединение этого аппарата посредством прилагаемого провода питания устройства ③ может привести к повреждению антенны.

О проводах управления и питания
- *При включении тюнера, а также использовании функции AF (Альтернативные частоты) или TA (Сообщения о текущей ситуации на дорогах) по проводу питания антенны с электрическим приводом (синему) подается напряжение +12 В постоянного тока.*
- *Если на заднем/боковом стекле автомобиля установлена встроенная антенна диапазона FM/MW/LW, подсоедините провод питания приемной антенны (синий) или провод питания аппарата (красный) к клемме питания существующего усилителя антенны. Чтобы получить дополнительные сведения, обратитесь к своему дилеру.*
- *Антенна с электрическим приводом, не снабженная релейным блоком, с этим аппаратом использоваться не может.*

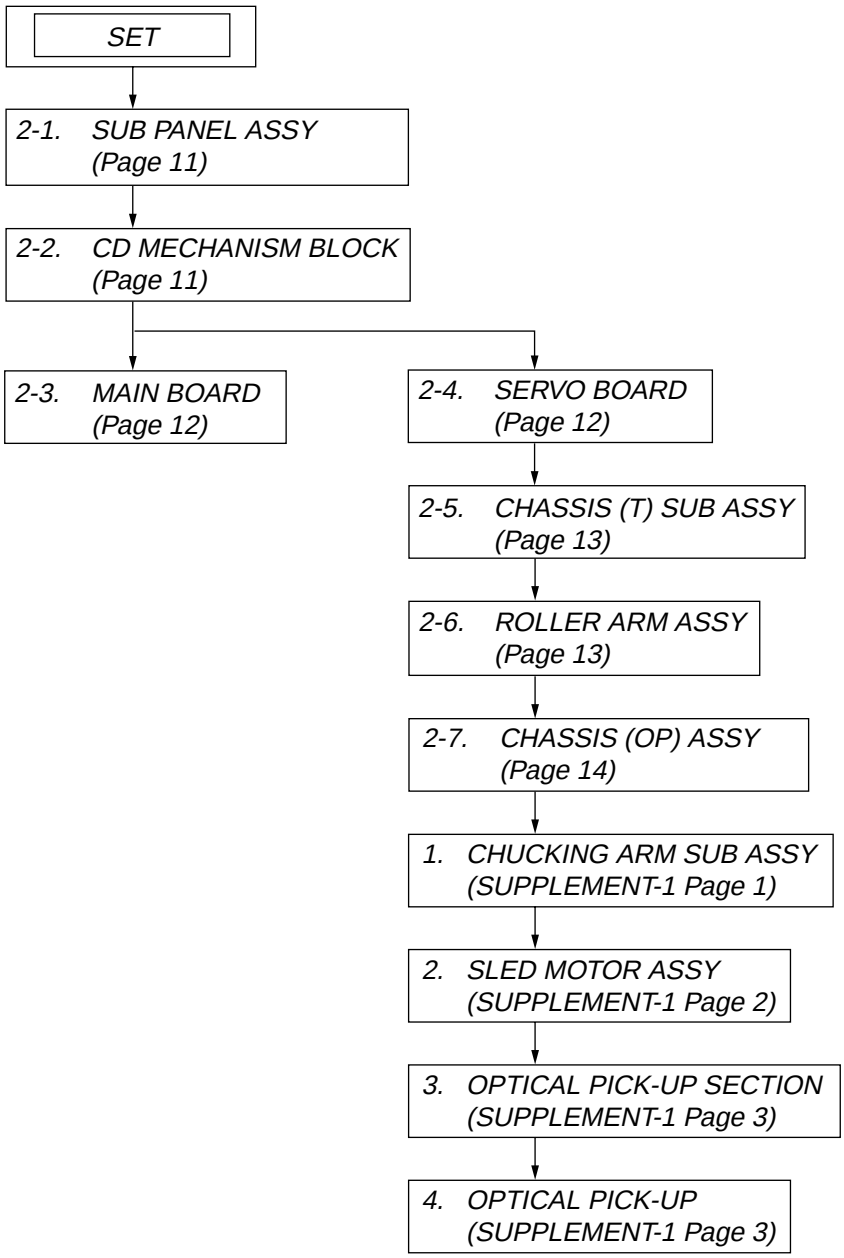
Подсоединение для поддержки памяти
Когда к аппарату подсоединен желтый электрический провод, блок памяти будет постоянно получать питание даже при выключенном зажигании.

Примечания относительно подсоединения громкоговорителей
- *Прежде чем подсоединять громкоговорители, выключите аппарат.*
- *Используйте громкоговорители с полным сопротивлением 4 - 8 Ом, обладающие способностью принимать достаточно мощный сигнал. В противном случае они могут быть повреждены.*
- *Не подсоединяйте контактные гнезда громкоговорителей к корпусу автомобиля и не соединяйте гнезда правого громкоговорителя с гнездами левого.*
- *Не подключайте провод заземления аппарата к отрицательному (–) контакту громкоговорителя.*
- *Не пытайтесь подсоединить громкоговорители параллельно.*
- *Подсоединять можно только пассивные громкоговорители. Подсоединение активных громкоговорителей (со встроенным усилителем) к гнездам для громкоговорителей может привести к повреждению аппарата.*
- *Во избежание неправильной работы аппарата не используйте встроенные в автомобиль провода громкоговорителей, если используется общий отрицательный провод (–) для правого и левого громкоговорителей.*
- *Не подсоединяйте друг к другу провода громкоговорителей аппарата.*

Примечание относительно подсоединения
Если громкоговоритель и усилитель подсоединены неправильно, на дисплее отобразится надпись "FAILURE". В этом случае проверьте правильность подсоединения громкоговорителя и усилителя.

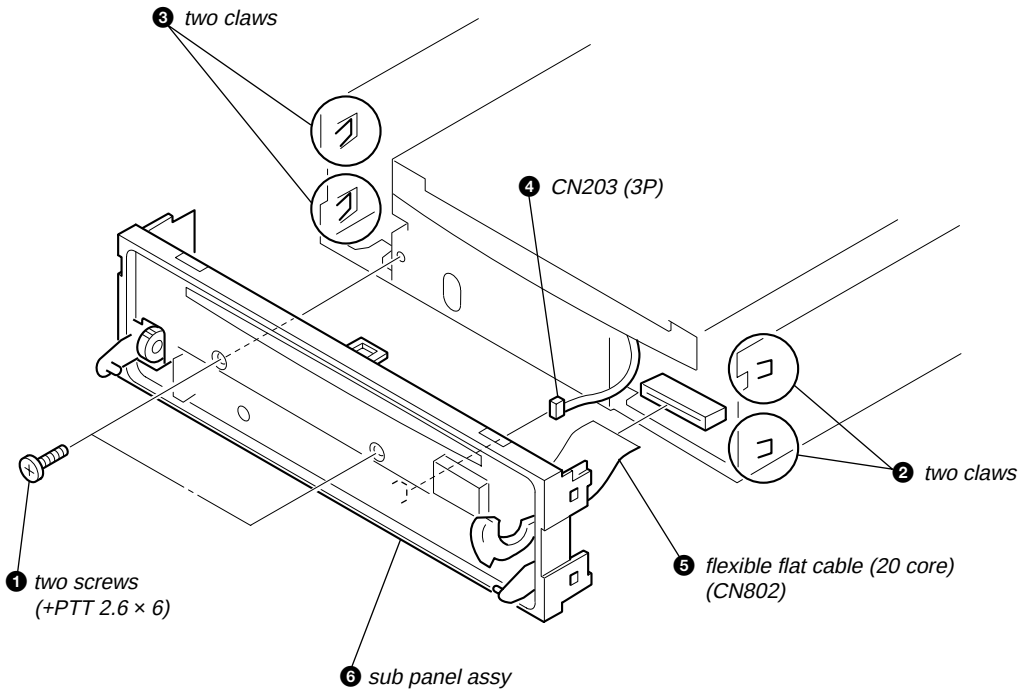
SECTION 2
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.

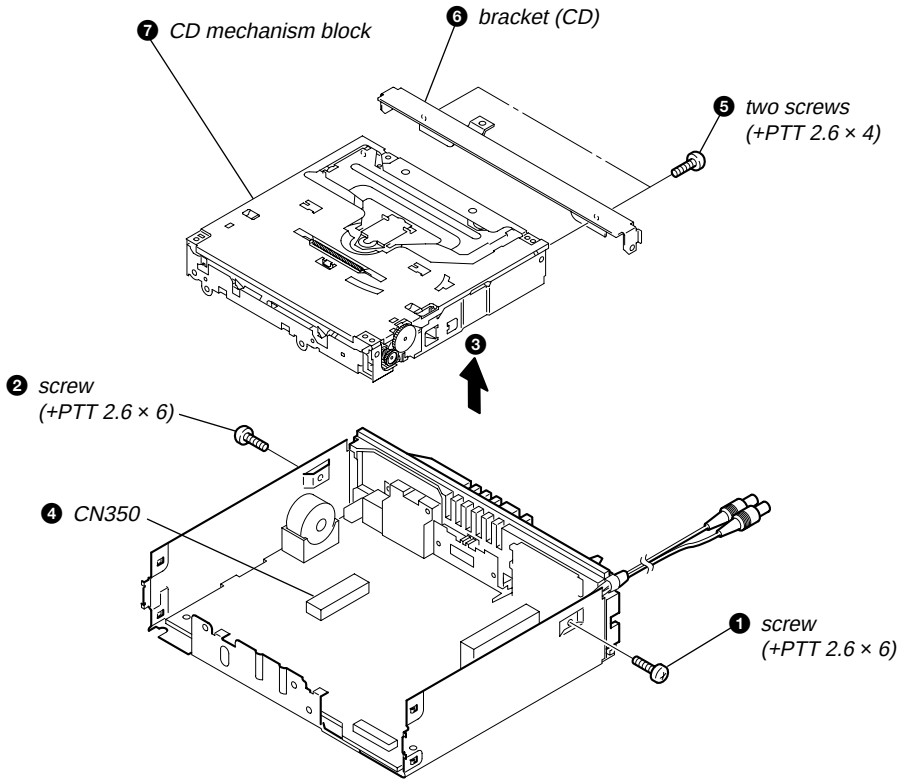

SET
2-1. SUB PANEL ASSY (Page 11)
2-2. CD MECHANISM BLOCK (Page 11)
2-3. MAIN BOARD (Page 12)
2-4. SERVO BOARD (Page 12)
2-5. CHASSIS (T) SUB ASSY (Page 13)
2-6. ROLLER ARM ASSY (Page 13)
2-7. CHASSIS (OP) ASSY (Page 14)
1. CHUCKING ARM SUB ASSY (SUPPLEMENT-1 Page 1)
2. SLED MOTOR ASSY (SUPPLEMENT-1 Page 2)
3. OPTICAL PICK-UP SECTION (SUPPLEMENT-1 Page 3)
4. OPTICAL PICK-UP (SUPPLEMENT-1 Page 3)

Note: Follow the disassembly procedure in the numerical order given.

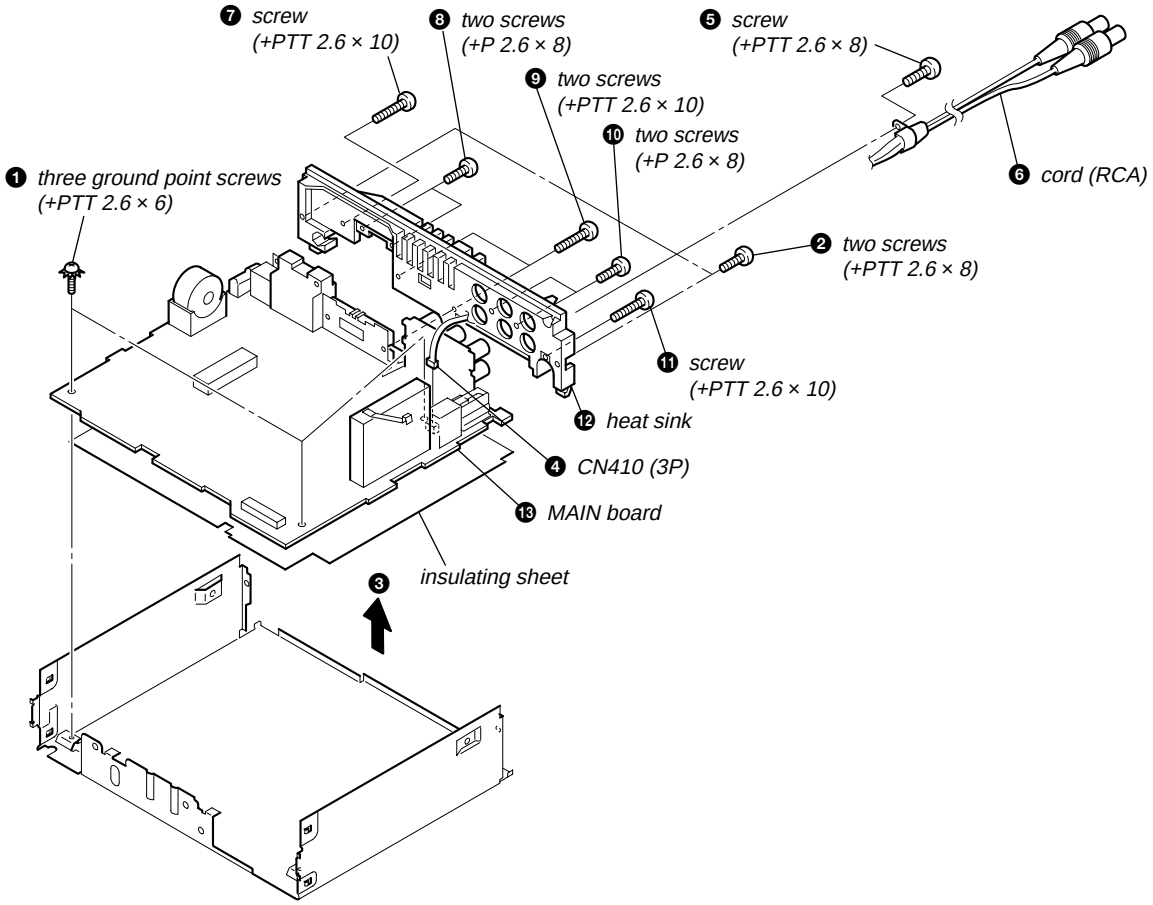
2-1. SUB PANEL ASSY



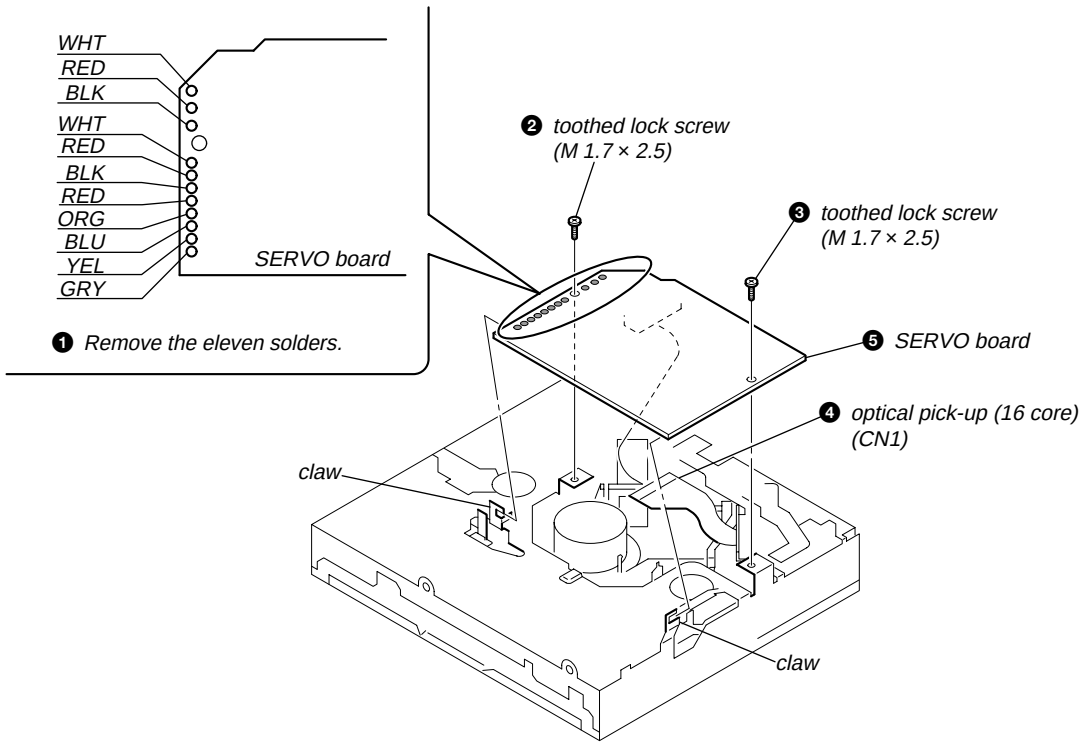
2-2. CD MECHANISM BLOCK



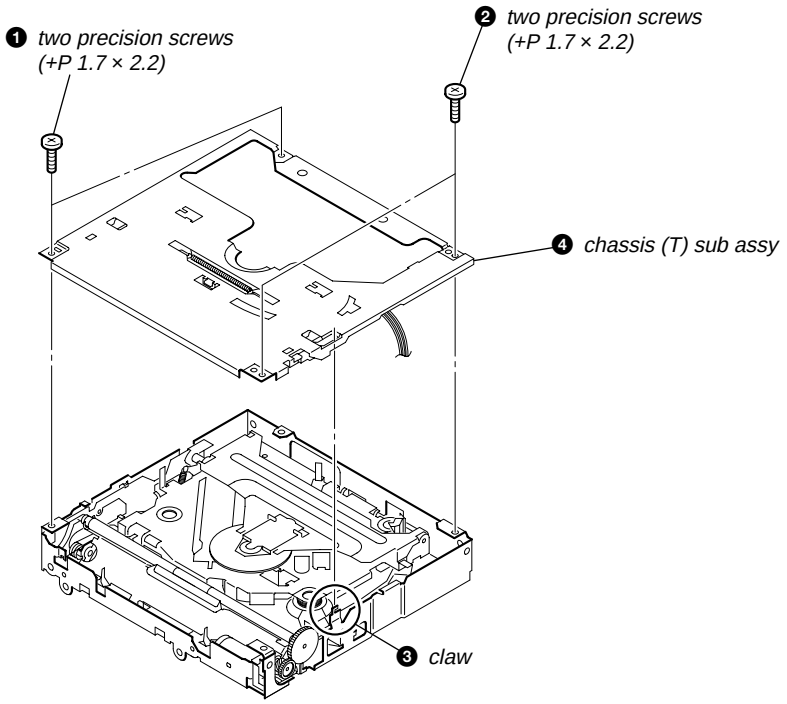
2-3. MAIN BOARD


❼ screw (+PTT 2.6 × 10)
❽ two screws (+P 2.6 × 8)
❺ screw (+PTT 2.6 × 8)
❾ two screws (+PTT 2.6 × 10)
❿ two screws (+P 2.6 × 8)
❻ cord (RCA)
❶ three ground point screws (+PTT 2.6 × 6)
❷ two screws (+PTT 2.6 × 8)
⓫ screw (+PTT 2.6 × 10)
⓬ heat sink
❹ CN410 (3P)
⓭ MAIN board
insulating sheet
❸

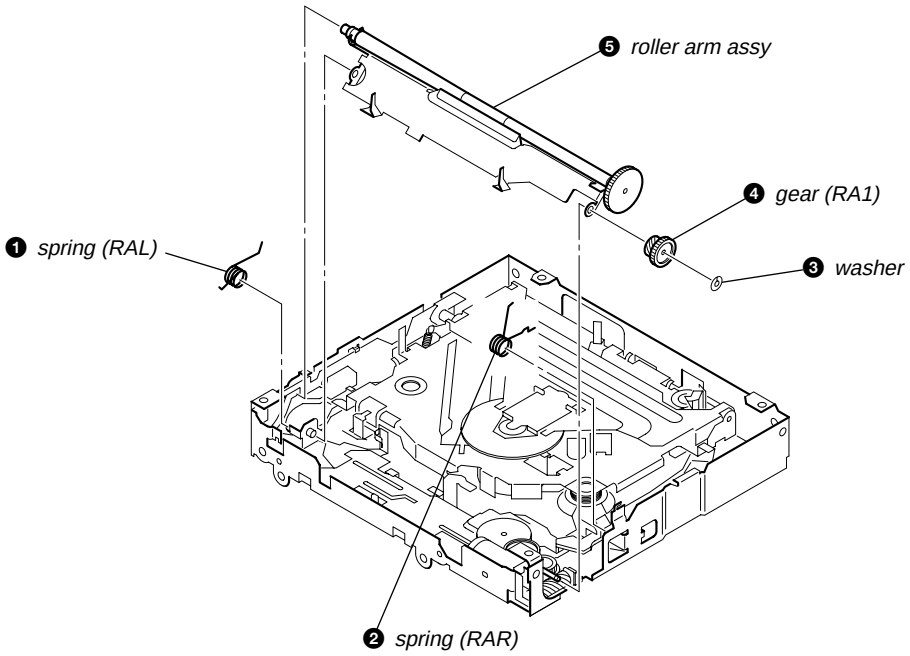
2-4. SERVO BOARD



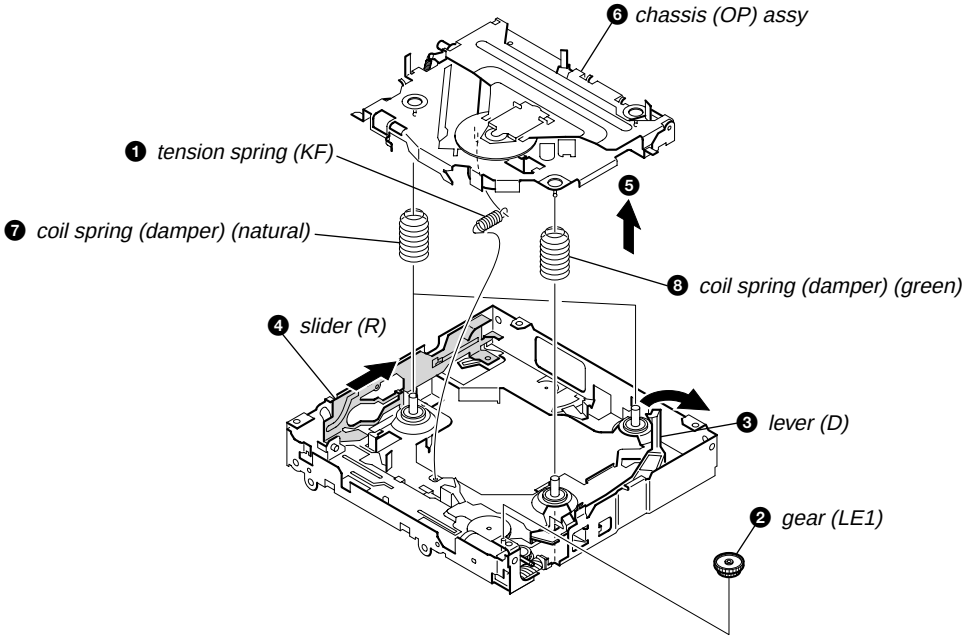
2-5. CHASSIS (T) SUB ASSY



2-6. ROLLER ARM ASSY



2-7. CHASSIS (OP) ASSY



SECTION 3
DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

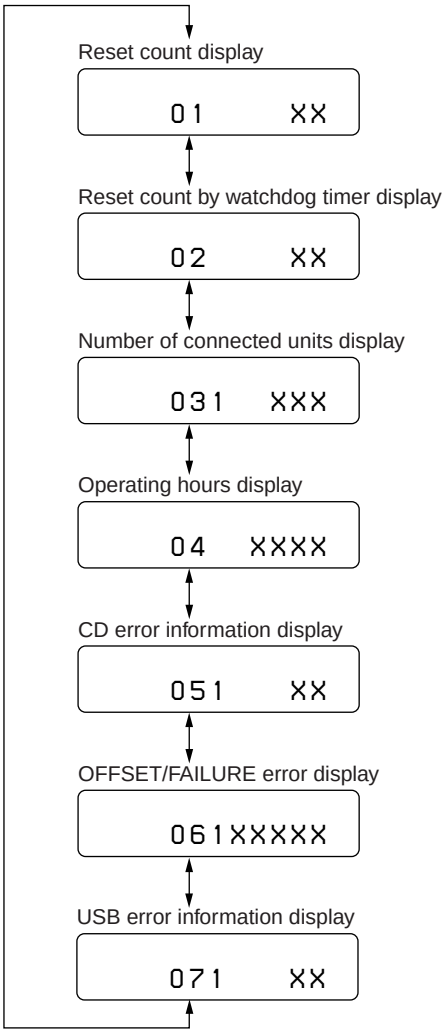
With the power off, press the [4] button, [5] button, and [4] button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

During the Diag function mode, press the [OFF] button.

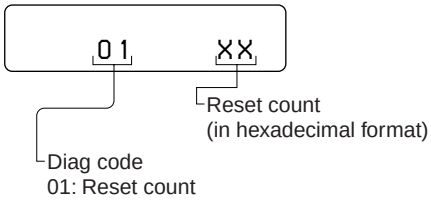
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, “reset count” is displayed. The display mode is switched by each rotation of [SEEK +/▶▶ ▶▶I] or [SEEK – /I◀◀ ◀◀] keys.

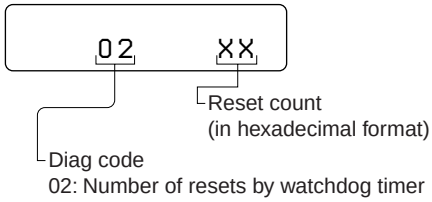


4. Contents of each display mode

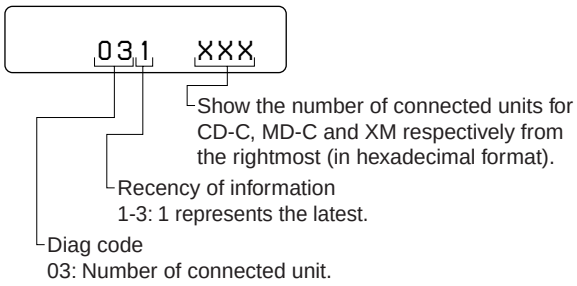
4-1. Reset count display mode



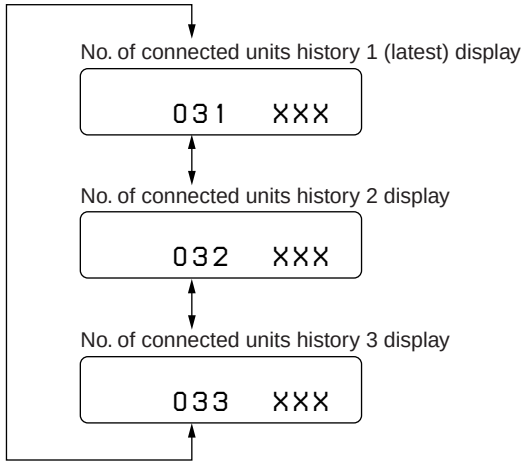
4-2. Reset count by watchdog timer display mode



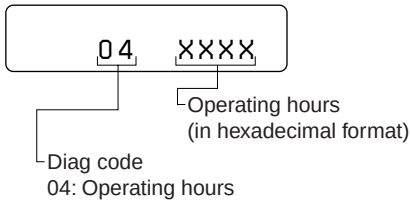
4-3. Number of connected units display mode


031 XXX
Show the number of connected units for CD-C, MD-C and XM respectively from the rightmost (in hexadecimal format).
Recency of information
1-3: 1 represents the latest.
Diag code
03: Number of connected unit.

The display mode is switched by each rotation of [2/GP/ALBM+] or [1/GP/ALBM–] keys during the number of connected units display mode.

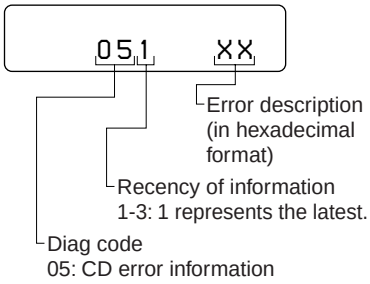

No. of connected units history 1 (latest) display
031 XXX
No. of connected units history 2 display
032 XXX
No. of connected units history 3 display
033 XXX

4-4. Operating hours display mode



4-5. CD error information display mode

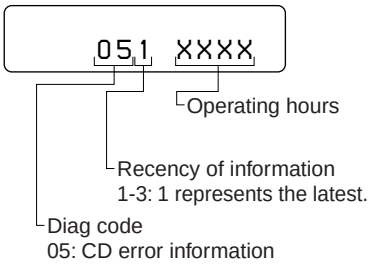
4-5-1. Error description



Error information

Indication	Description
1X	SERVO ERROR
3X	LOADING ERROR
4X	TRACK JUMP
5X	TEXT ERROR
FX	MECHA ERROR

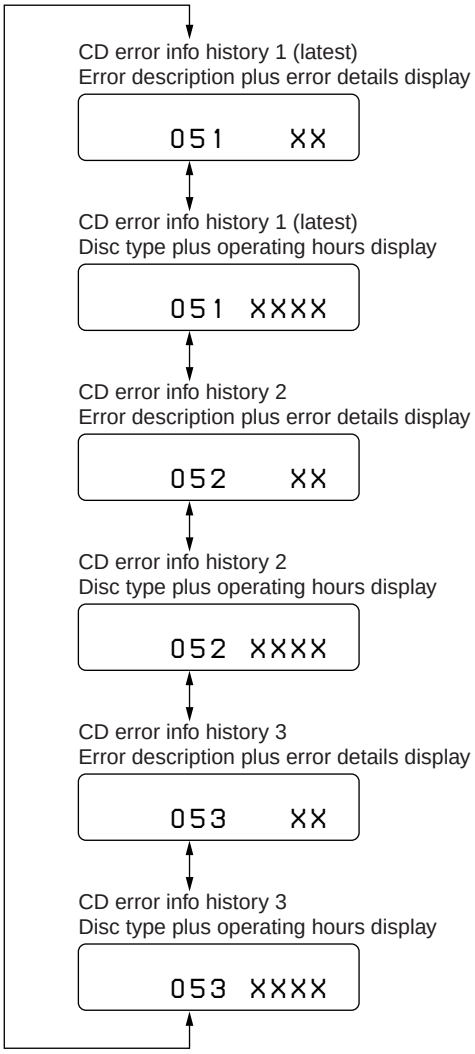
4-5-2. Disc type and operating hours



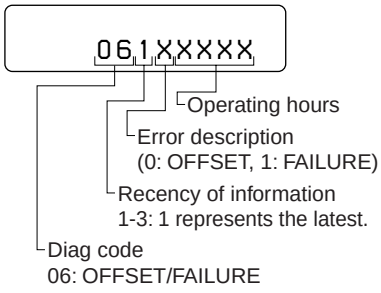
Disc type

Indication	Disc type
0	MP3
1	WMA
2	AAC
3	ATRAC
8	CD/DA
F	UNKNOWN

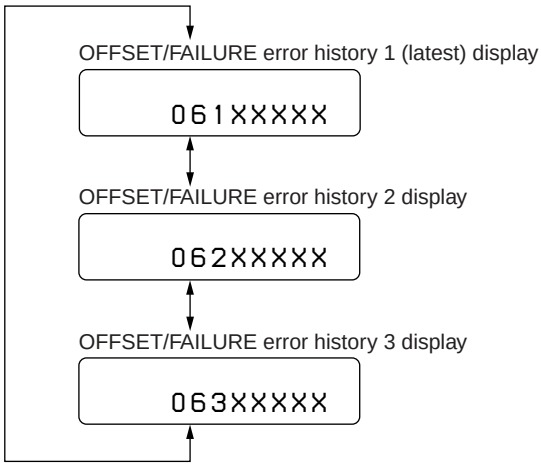
The display mode is switched by each rotation of 2/GP/ALBM+ or 1/GP/ALBM– keys during the CD error information display mode.


CD error info history 1 (latest)
Error description plus error details display
051 XX
CD error info history 1 (latest)
Disc type plus operating hours display
051 XXXX
CD error info history 2
Error description plus error details display
052 XX
CD error info history 2
Disc type plus operating hours display
052 XXXX
CD error info history 3
Error description plus error details display
053 XX
CD error info history 3
Disc type plus operating hours display
053 XXXX

4-6. OFFSET/FAILURE error display mode

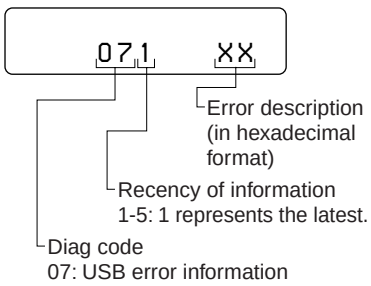


The display mode is switched by each rotation of 2/GP/ALBM+ or 1/GP/ALBM– keys during the OFFSET/FAILURE error display mode.



4-7. USB error information display mode

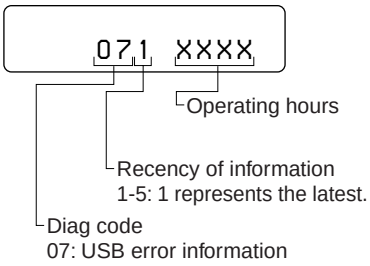
4-7-1. Error description



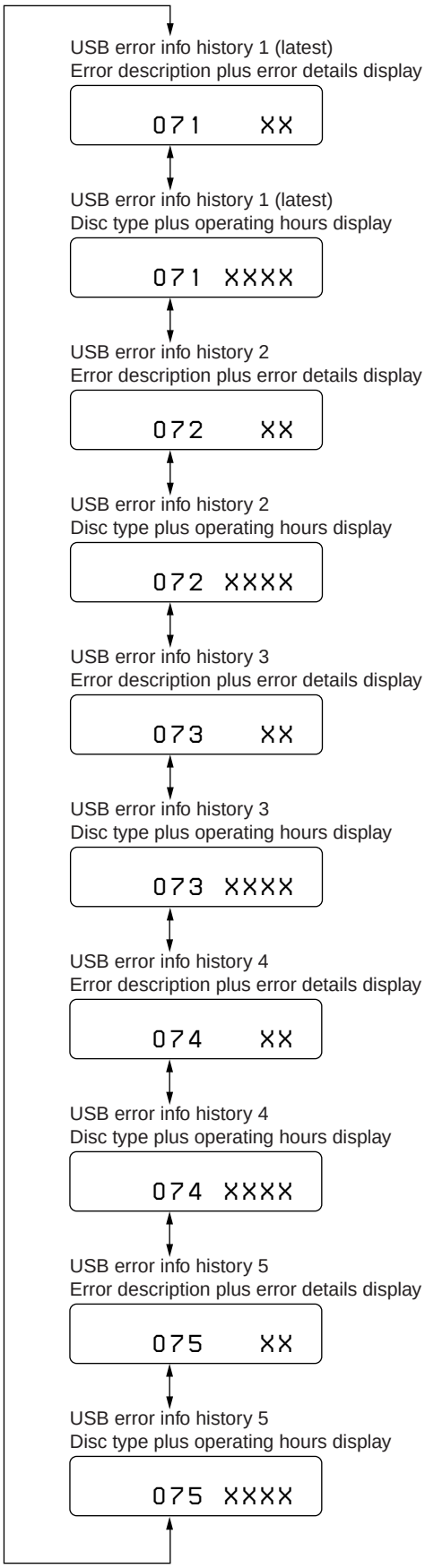
Error information

Indication	Description
15	DEVICE ERROR
17	FILE ERROR (NO MUSIC)
1E	POWER ON ERROR
1F	BOOT ERROR
3A	INVALID EJECT ERROR
43	READ ERROR
44	INVALID FORMAT FILE
FA	NOT SUPPORT DEVICE
FB	HUB NOT SUPPORT

4-7-2. Disc type and operating hours



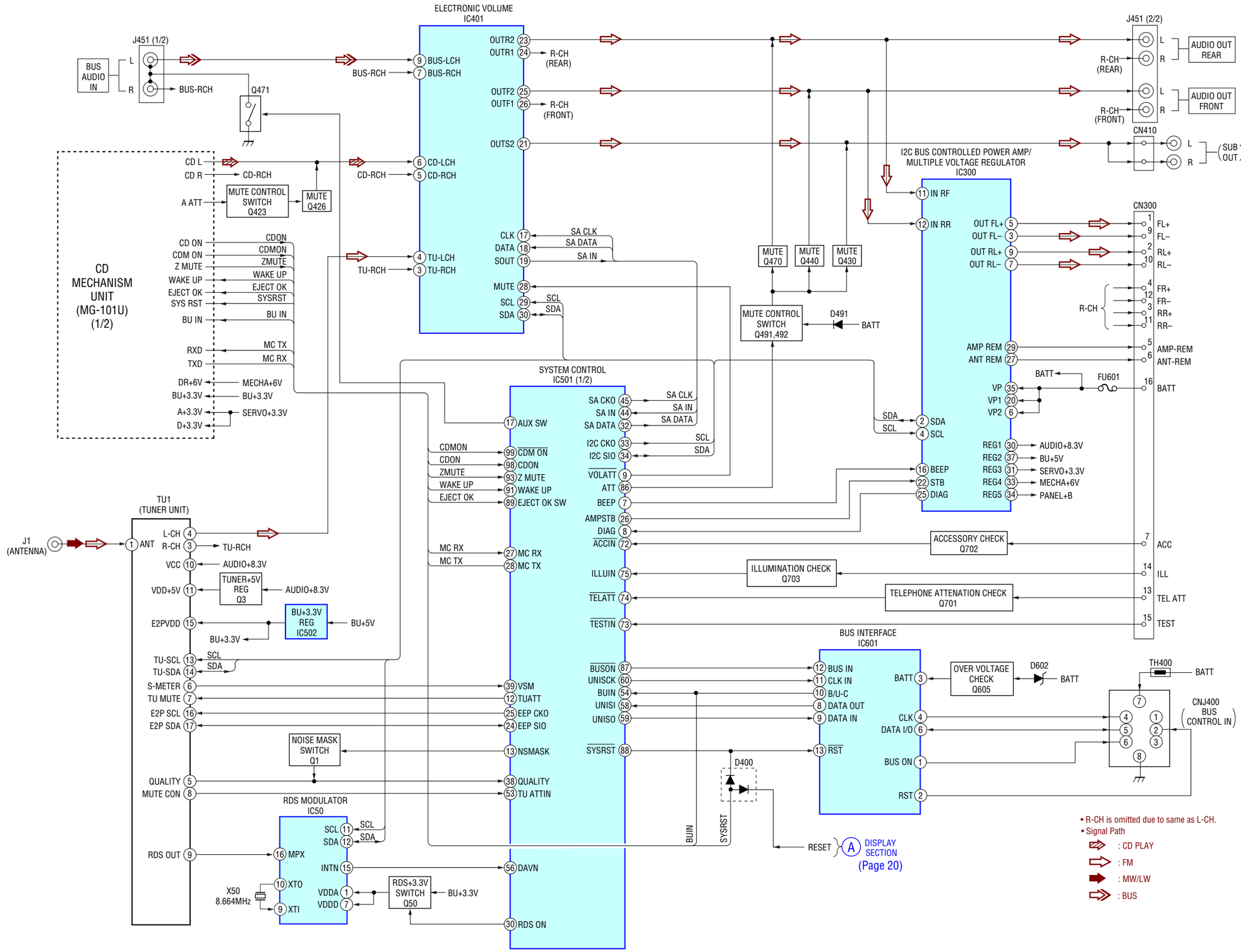
The display mode is switched by each rotation of 2/GP/ALBM+ or 1/GP/ALBM– keys during the CD error information display mode.


USB error info history 1 (latest)
Error description plus error details display
071 XX
USB error info history 1 (latest)
Disc type plus operating hours display
071 XXXX
USB error info history 2
Error description plus error details display
072 XX
USB error info history 2
Disc type plus operating hours display
072 XXXX
USB error info history 3
Error description plus error details display
073 XX
USB error info history 3
Disc type plus operating hours display
073 XXXX
USB error info history 4
Error description plus error details display
074 XX
USB error info history 4
Disc type plus operating hours display
074 XXXX
USB error info history 5
Error description plus error details display
075 XX
USB error info history 5
Disc type plus operating hours display
075 XXXX

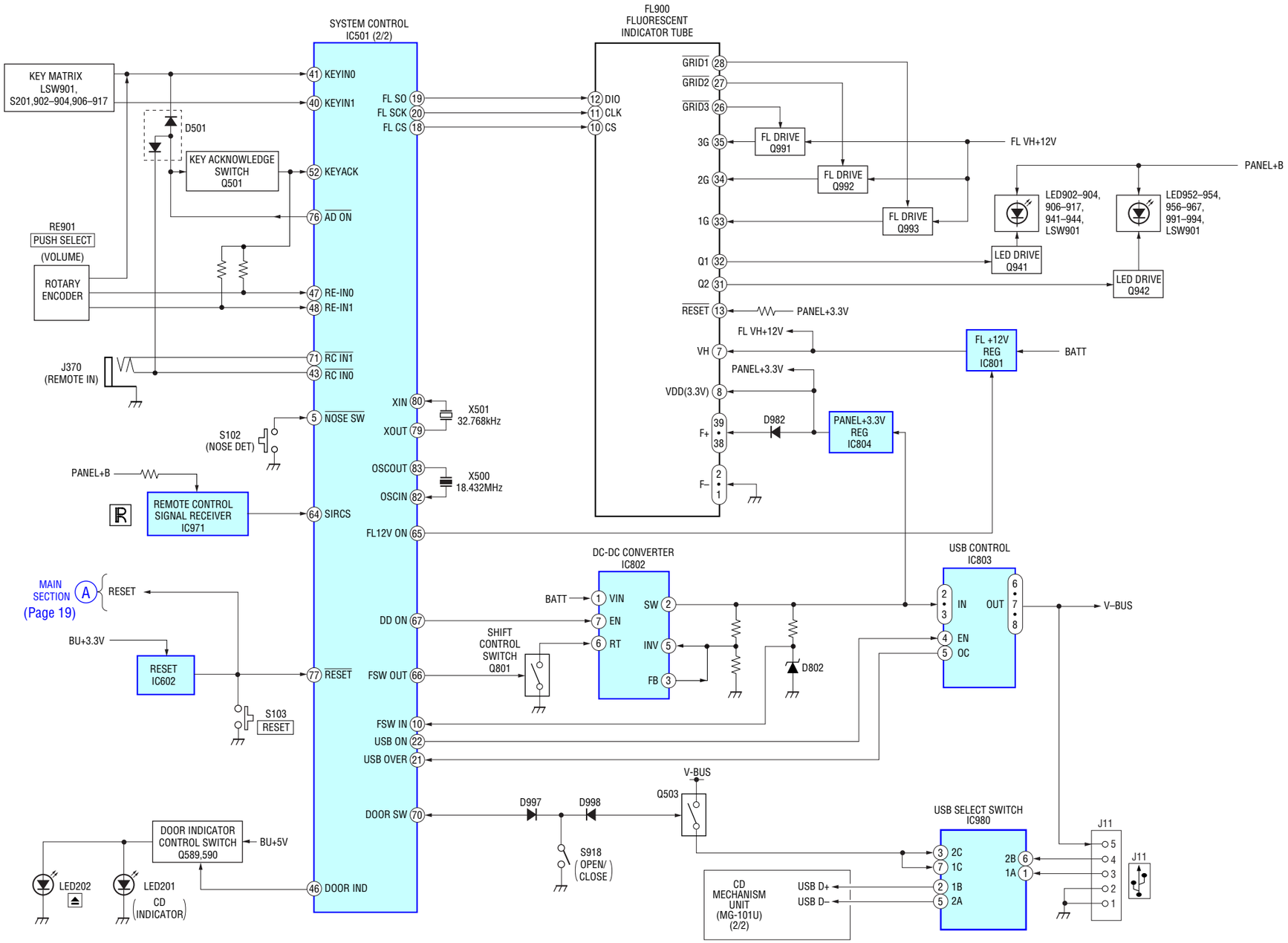
MEMO

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM — MAIN SECTION —



4-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW/LW
  < > : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : FM
  ➡ : MW/LW
  ⇨ : BUS

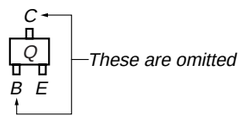
For printed wiring boards.

Note:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side (Side B): Parts on the pattern face side seen from the pattern face are indicated.
Parts face side (Side A): Parts on the parts face side seen from the parts face are indicated.



These are omitted

These are omitted

These are omitted

• Waveforms

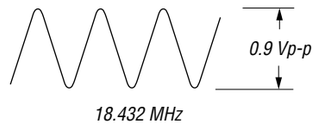
— MAIN Board —

① IC501 ⑧⓪ (XIN)

32.768 kHz

0.2 V/DIV, 20 µsec/DIV

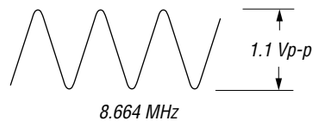
② IC501 ⑧② (OSC IN)



18.432 MHz

0.5 V/DIV, 0.1 µsec/DIV

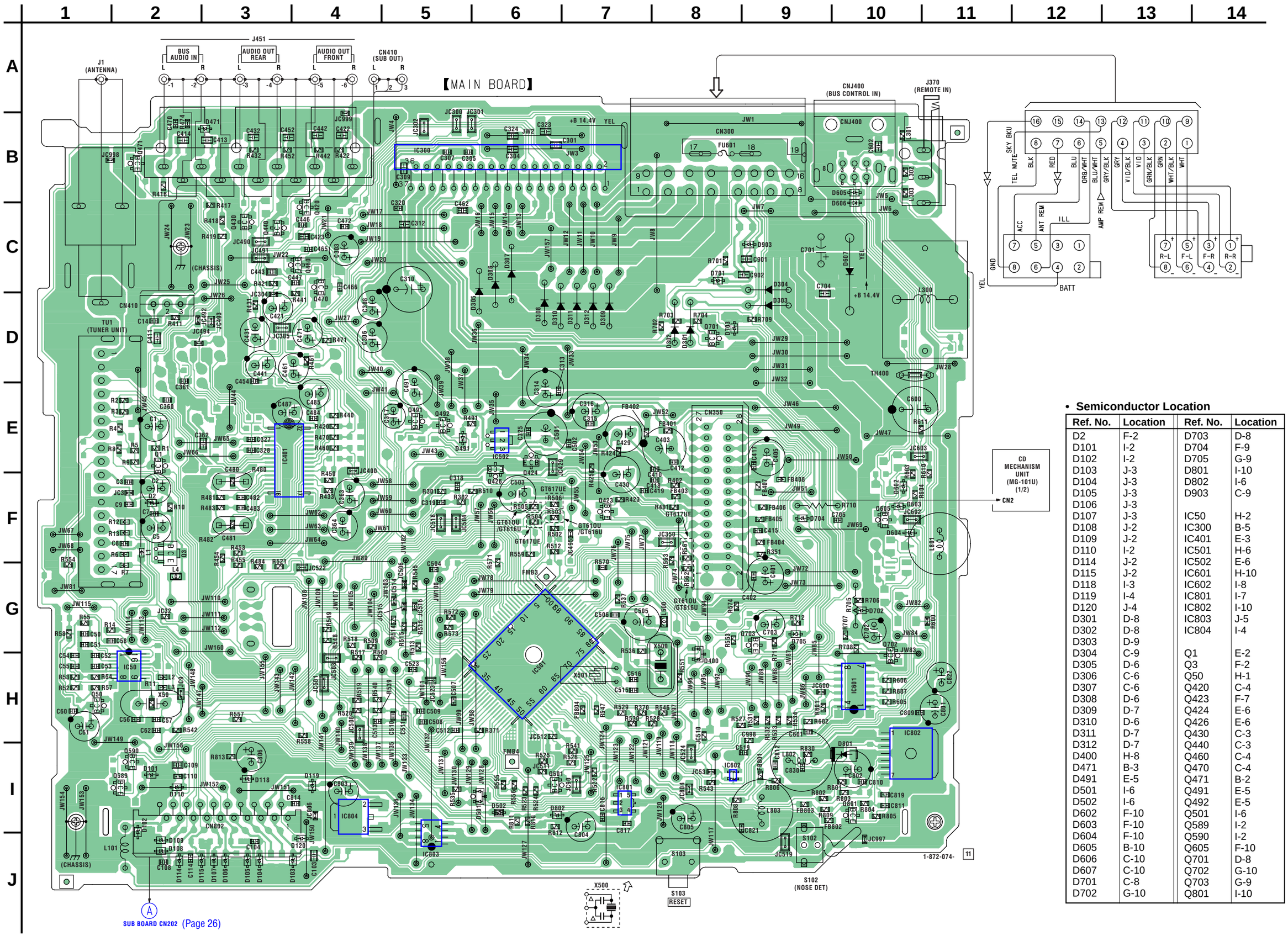
③ IC50 ⑨ (XTI)



8.664 MHz

0.5 V/DIV, 0.1 µsec/DIV

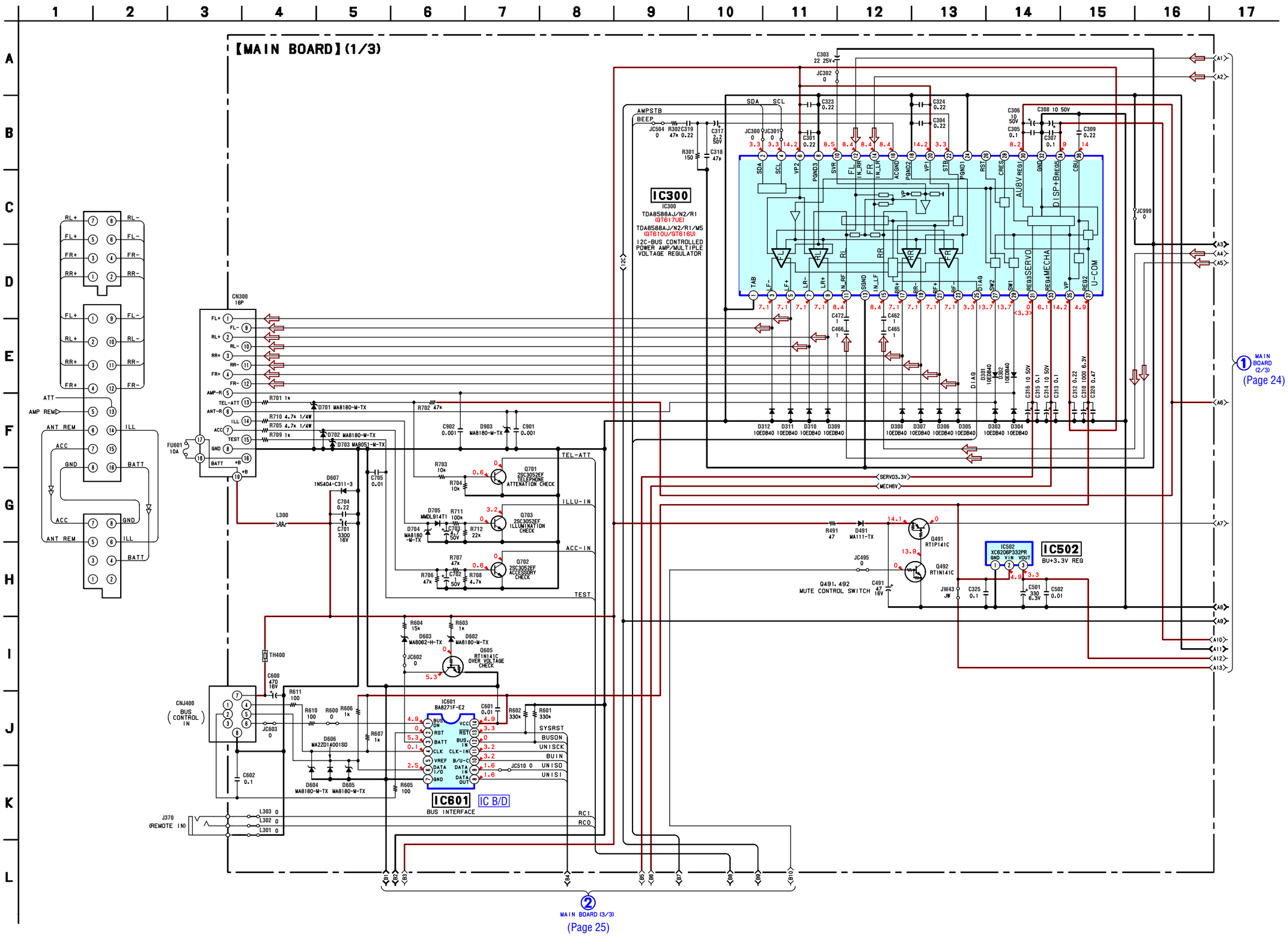
4-3. PRINTED WIRING BOARD — MAIN SECTION — : Uses unleaded solder.



- **Semiconductor Location**

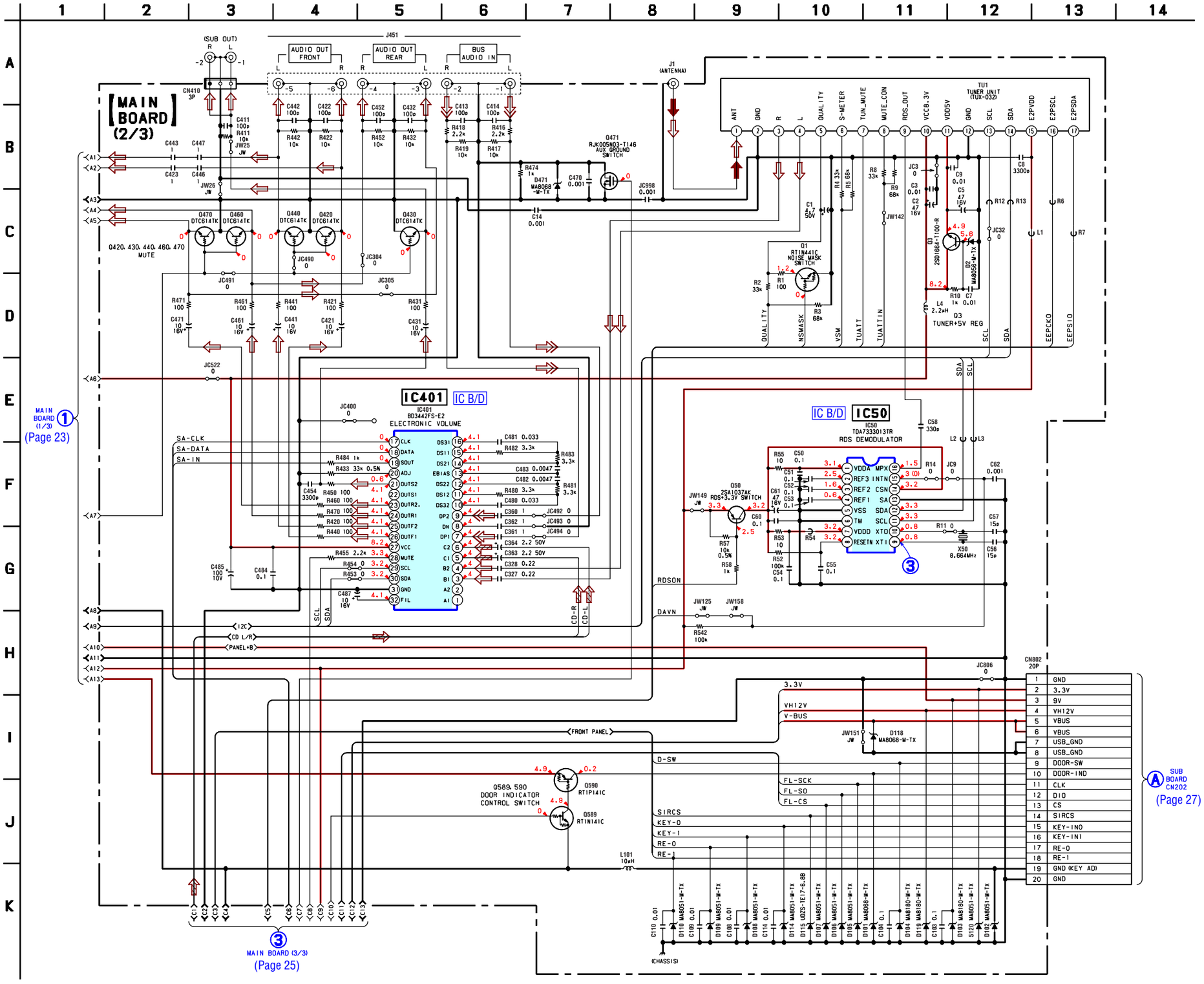
Ref. No.	Location	Ref. No.	Location
D2	F-2	D703	D-8
D101	I-2	D704	F-9
D102	I-2	D705	G-9
D103	J-3	D801	I-10
D104	J-3	D802	I-6
D105	J-3	D903	C-9
D106	J-3		
D107	J-3	IC50	H-2
D108	J-2	IC300	B-5
D109	J-2	IC401	E-3
D110	I-2	IC501	H-6
D114	J-2	IC502	E-6
D115	J-2	IC601	H-10
D118	I-3	IC602	I-8
D119	I-4	IC801	I-7
D120	J-4	IC802	I-10
D301	D-8	IC803	J-5
D302	D-8	IC804	I-4
D303	D-9		
D304	C-9	Q1	E-2
D305	D-6	Q3	F-2
D306	C-6	Q50	H-1
D307	C-6	Q420	C-4
D308	D-6	Q423	F-7
D309	D-7	Q424	E-6
D310	D-6	Q426	E-6
D311	D-7	Q430	C-3
D312	D-7	Q440	C-3
D400	H-8	Q460	C-4
D471	B-3	Q470	C-4
D491	E-5	Q471	B-2
D501	I-6	Q491	E-5
D502	I-6	Q492	E-5
D602	F-10	Q501	I-6
D603	F-10	Q589	I-2
D604	F-10	Q590	I-2
D605	B-10	Q605	F-10
D606	C-10	Q701	D-8
D607	C-10	Q702	G-10
D701	C-8	Q703	G-9
D702	G-10	Q801	I-10

4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 30 for IC Block Diagrams.



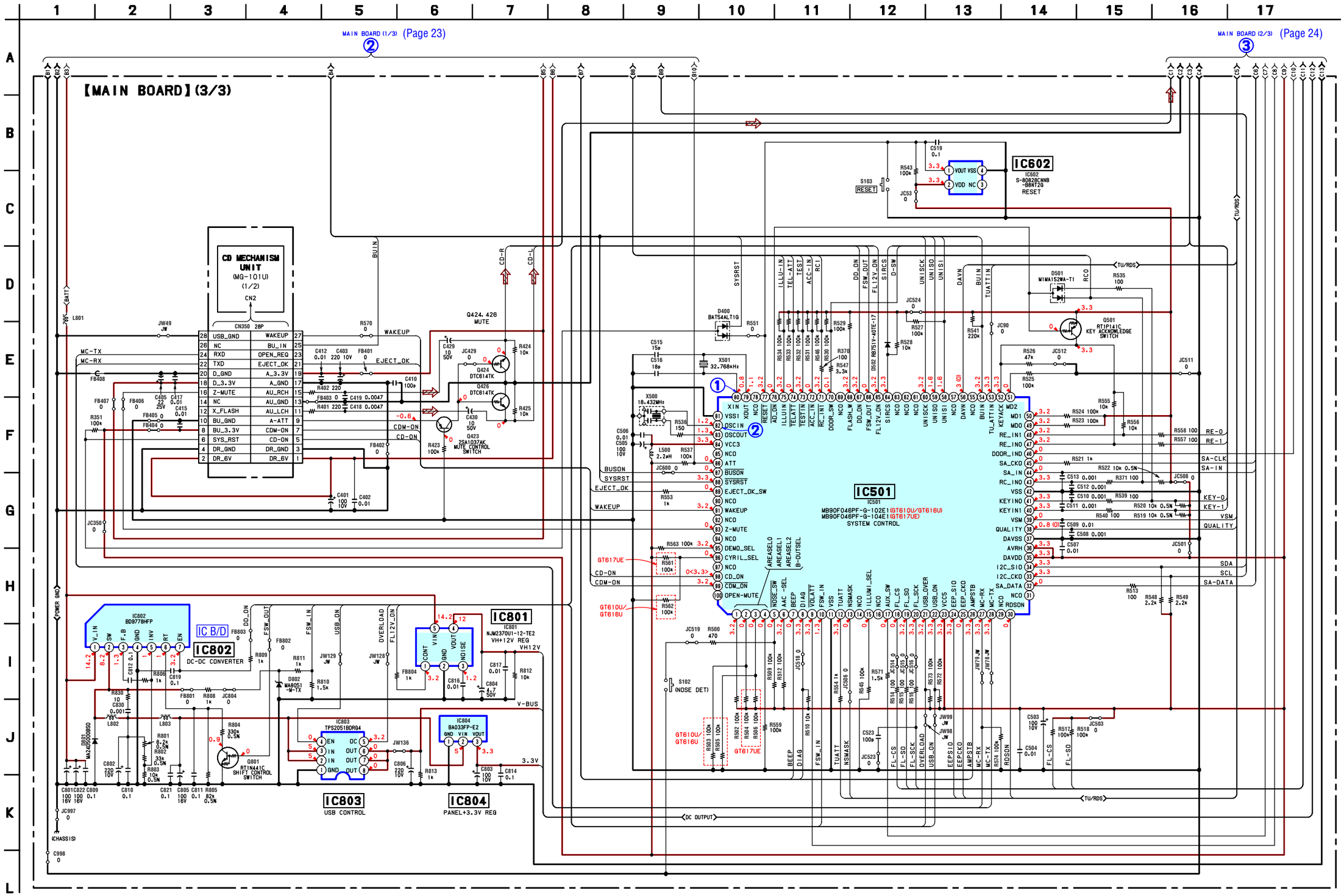
4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —

- Refer to page 21 for Waveforms.
- Refer to page 30 for IC Block Diagrams.

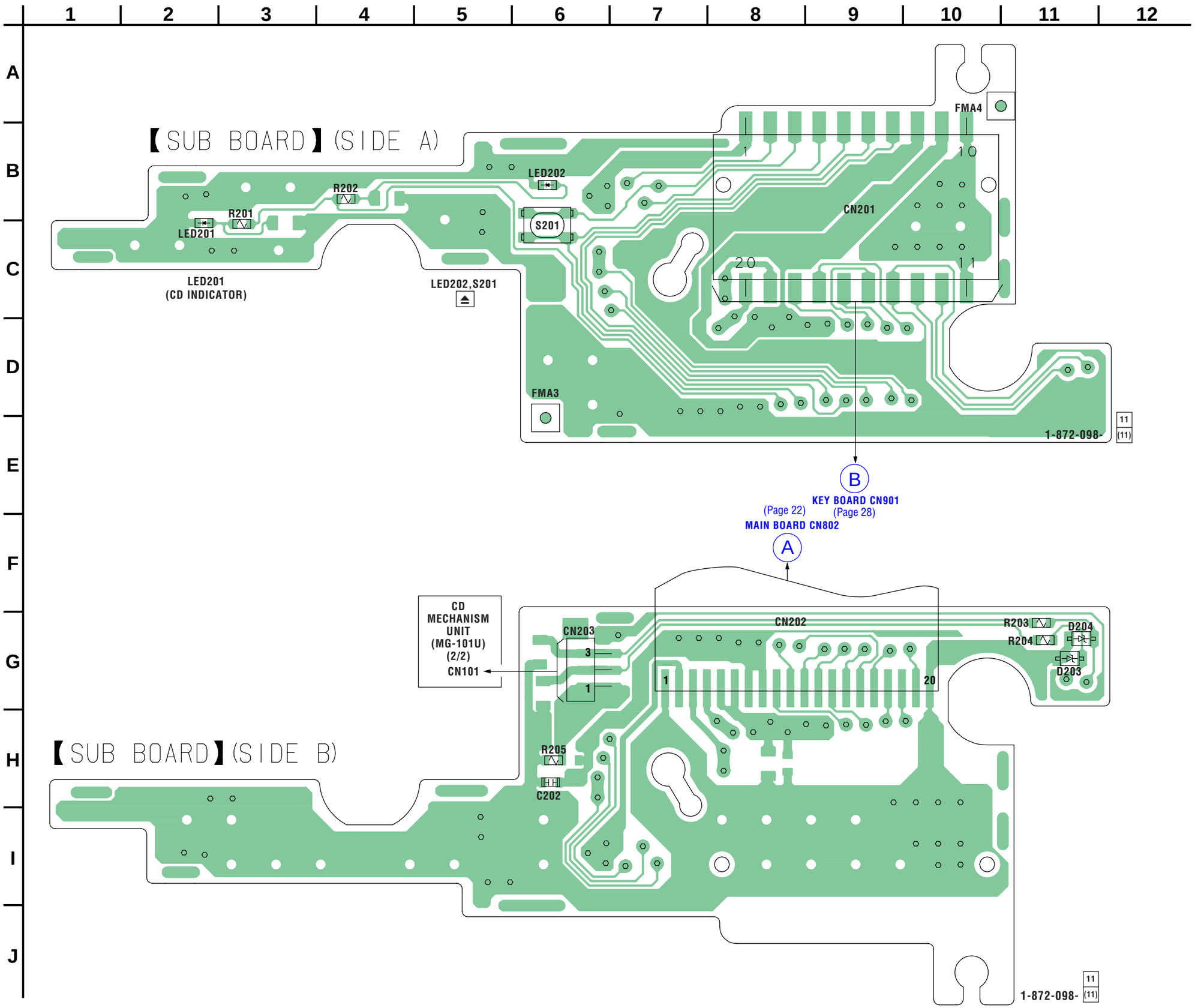


- Refer to page 21 for Waveforms.
- Refer to page 30 for IC Block Diagrams.
- Refer to page 31 for IC Pin Description of IC501.

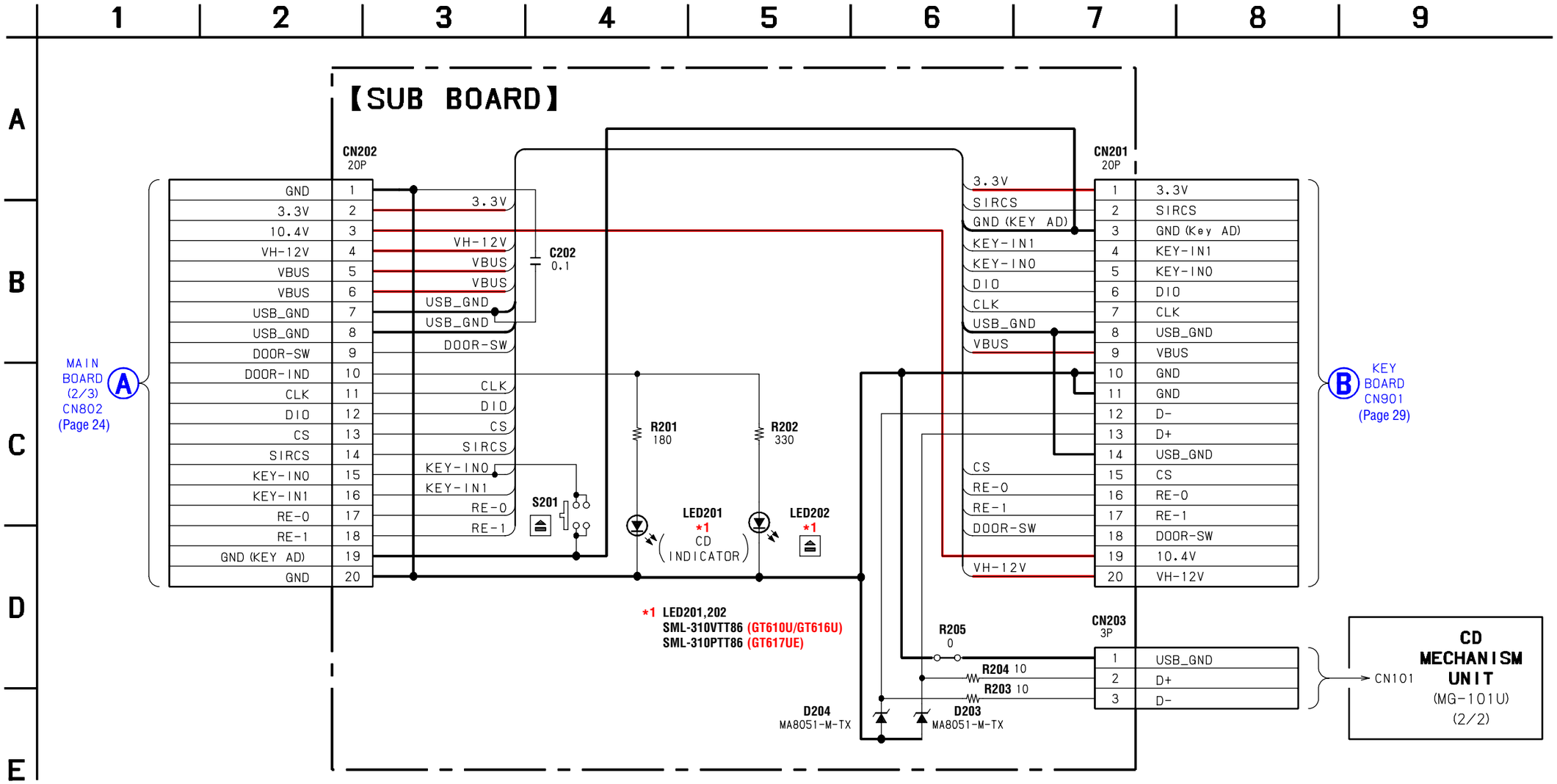
4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —



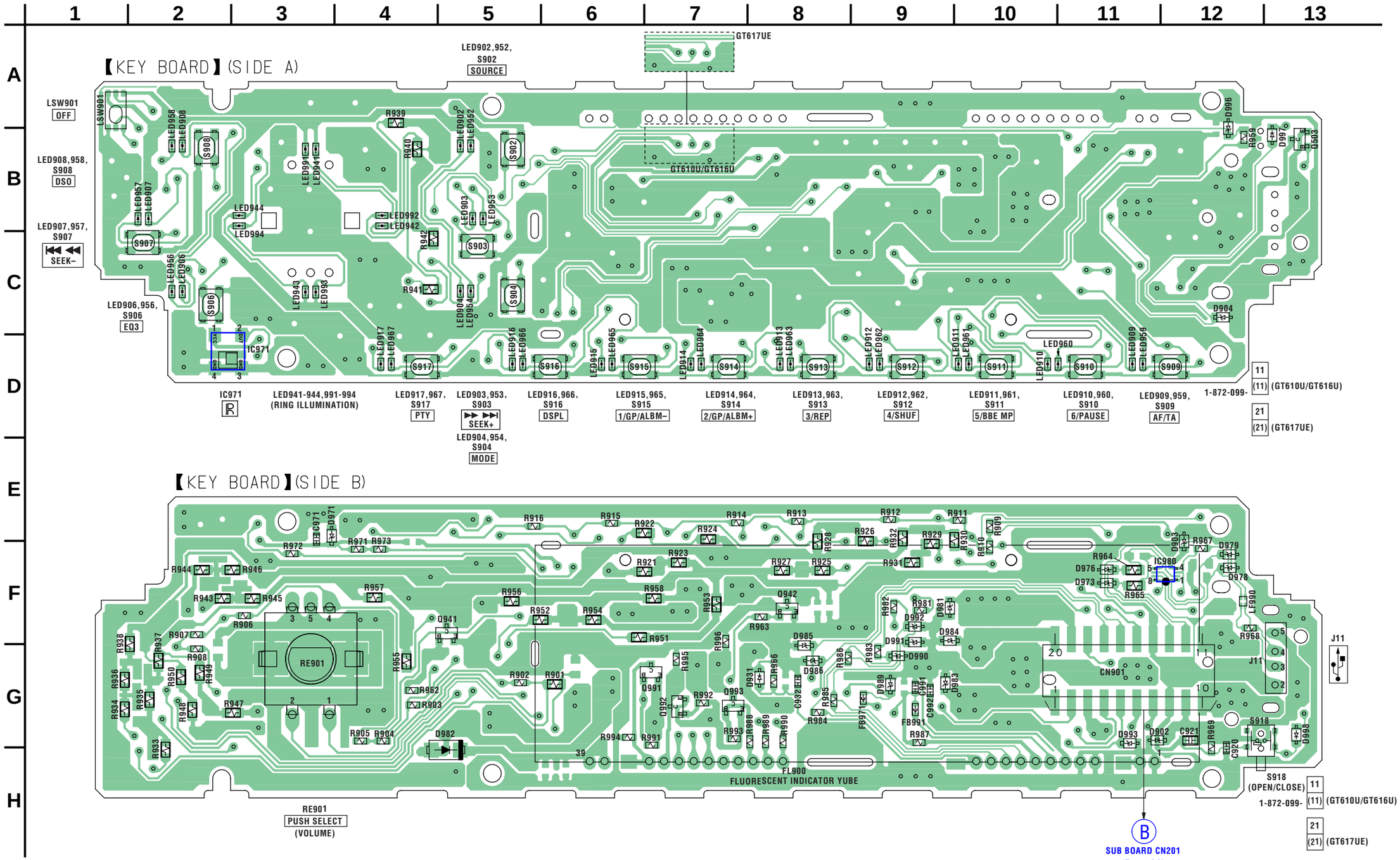
4-7. PRINTED WIRING BOARD — SUB SECTION — : Uses unleaded solder.



4-8. SCHEMATIC DIAGRAM — SUB SECTION —



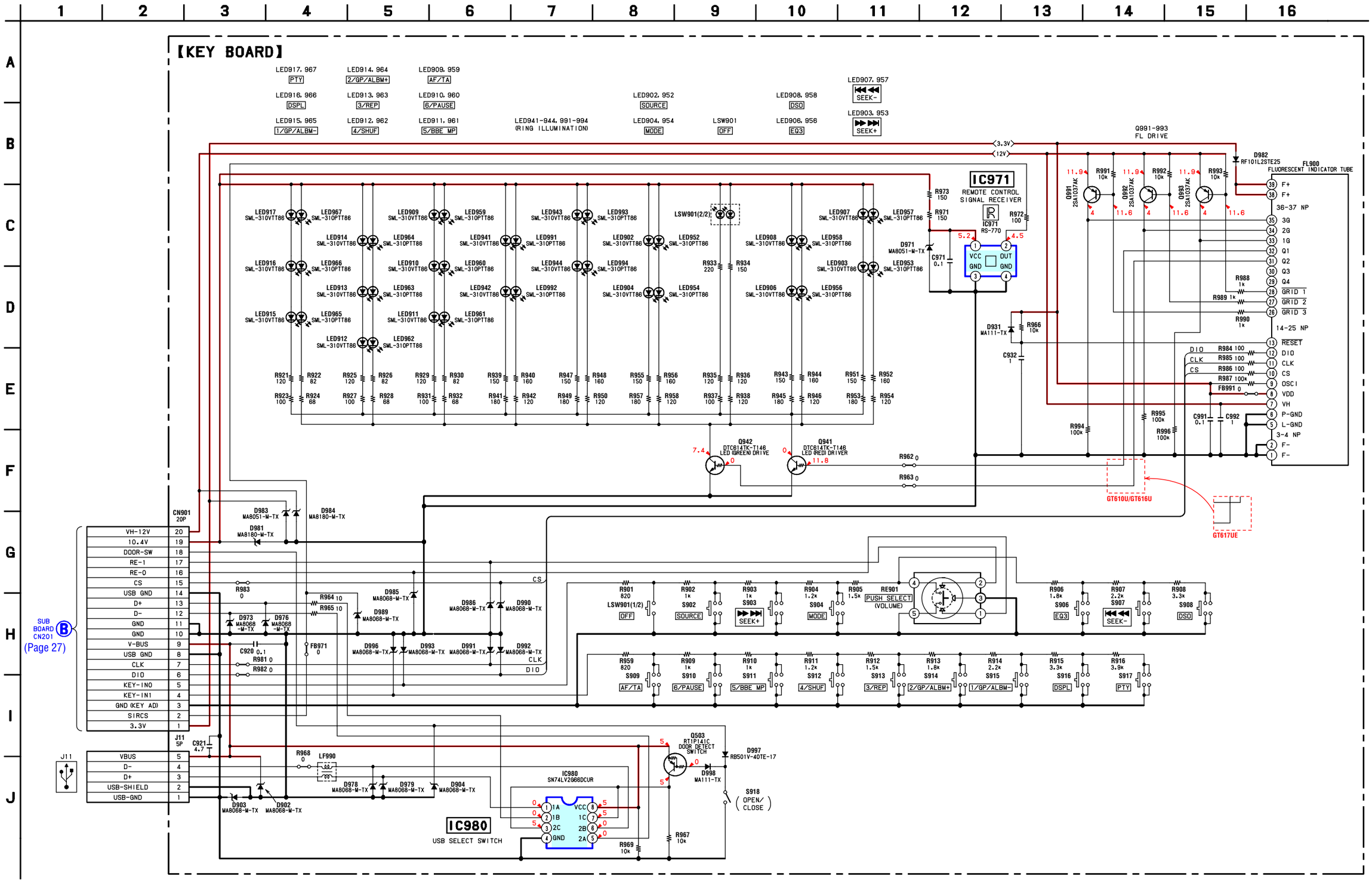
4-9. PRINTED WIRING BOARD — KEY SECTION — : Uses unleaded solder.



- **Semiconductor Location**

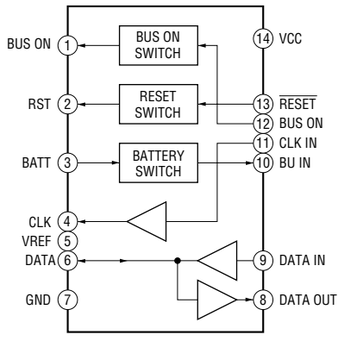
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D902	G-11	D984	F-9	IC971	D-3	LED912	D-9	LED954	C-5	LED967	D-4
D903	E-12	D985	F-8	IC980	F-12	LED913	D-8	LED956	C-2	LED991	B-3
D904	C-12	D986	G-8			LED914	D-7	LED957	B-2	LED992	B-4
D931	G-8	D989	G-9	LED902	B-5	LED915	D-6	LED958	B-2	LED993	C-3
D971	E-3	D990	G-9	LED903	B-5	LED916	D-5	LED959	D-11	LED994	B-3
D973	F-11	D991	F-9	LED904	C-5	LED917	D-4	LED960	D-11		
D976	F-11	D992	F-9	LED906	C-2	LED941	B-3	LED961	D-10	Q503	B-13
D978	F-12	D993	G-11	LED907	B-2	LED942	B-4	LED962	D-9	Q941	F-5
D979	F-12	D996	A-12	LED908	B-2	LED943	C-3	LED963	D-8	Q942	F-8
D981	F-9	D997	B-13	LED909	D-11	LED944	B-3	LED964	D-7	Q991	G-7
D982	D-5	D998	G-13	LED910	D-10	LED952	B-5	LED965	D-6	Q992	G-7
D983	G-9			LED911	D-10	LED953	B-5	LED966	D-5	Q993	G-7

4-10. SCHEMATIC DIAGRAM — KEY SECTION —

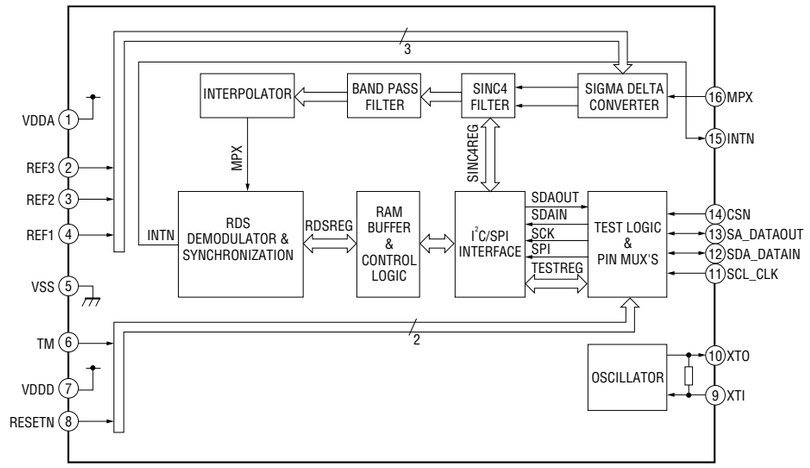


• IC BLOCK DIAGRAMS

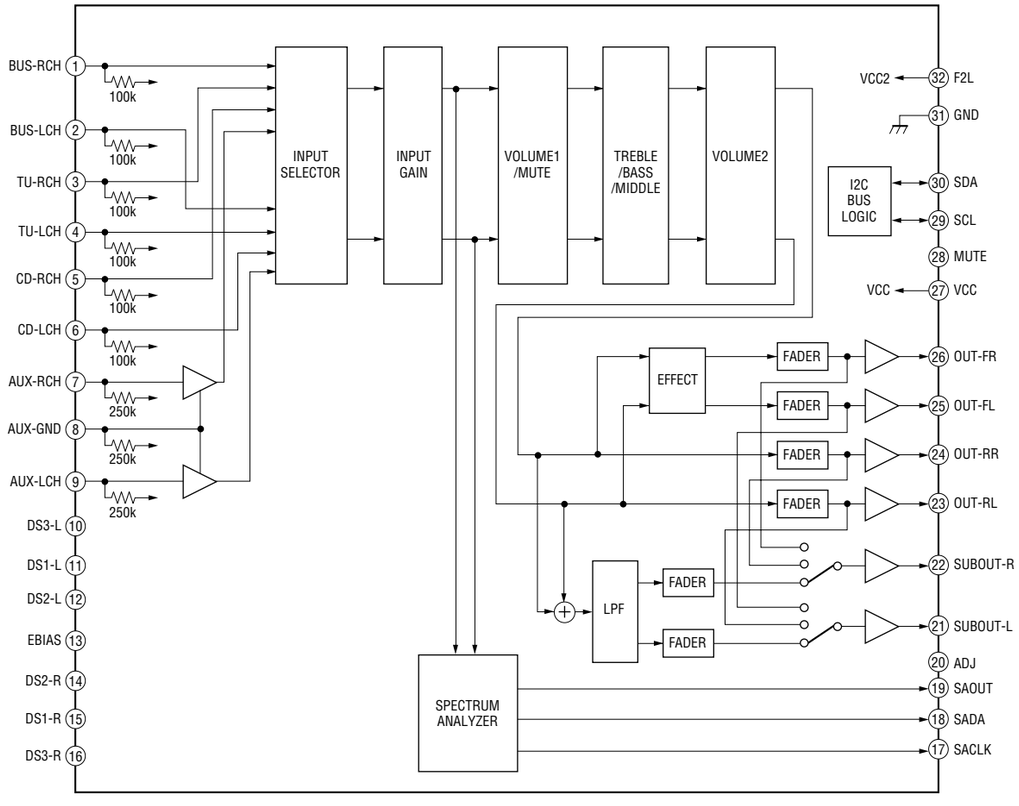
IC601 BA8271F-E2 (MAIN Board (1/3))



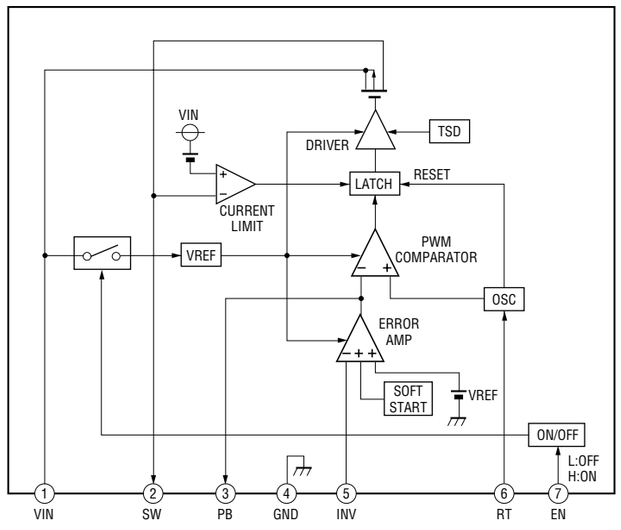
IC50 TDA7333013TR (MAIN Board (2/3))



IC401 BD3442FS-E2 (MAIN Board (2/3))



IC802 BD9778HFP (MAIN Board (3/3))



• IC PIN DESCRIPTION

IC501 MB90F046PF-G-102E1 (SYSTEM CONTROL) (CDX-GT610U/GT616U) (MAIN BOARD (3/3))

IC501 MB90F046PF-G-104E1 (SYSTEM CONTROL) (CDX-GT617UE) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin 0
2	AREASEL1	I	Destination setting pin 1
3	AREASEL2	I	Destination setting pin 2
4	B-OUTSEL	I	Black-out with/without discrimination signal input “H”: Black-out
5	NOSE SW	I	Front panel attachment detect signal input “L”: with panel
6	AAC SEL	I	AAC play setting signal input “H”: AAC
7	BEEP	O	Beep signal output to power amplifier
8	DIAG	I	Status signal input from power amplifier
9	$\overline{\text{VOLATT}}$	O	Electronic volume attenuate control signal output
10	FSW IN	I	D/D converter oscillator frequency count signal input
11	VSS	—	Ground pin
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output
14	NCO	O	Not used. (Open)
15	ILLUMI SEL	I	Illumination voltage setting signal input
16	NCO	O	Not used. (Open)
17	AUX SW	O	AUX change over signal output “L”: AUX, “H”: BUS IN
18	FL CS	O	Fluorescent indicator tube chip select signal output
19	FL SO	O	Fluorescent indicator tube serial data signal output
20	FL SCK	O	Fluorescent indicator tube serial clock signal output
21	USB OVR	I	Overcurrent detect signal input from USB power supply high side switch
22	USB ON	O	USB power supply high side switch control signal output
23	VCC5	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	EEPROM bus serial data signal input/output
25	EEP CKO	O	EEPROM bus serial clock signal output
26	AMPSTB	O	Standby signal output to power amplifier
27	MC RX	I	Mechanism microcomputer comunication signal input RX
28	MC TX	O	Mechanism microcomputer comunication signal output TX
29	NCO	O	Not used. (Open)
30	RDS ON	O	RDS (Radio Data System) on signal output Tuner on: “L”
31	NCO	O	Not used. (Open)
32	SA DATA	O	Data signal output for electronic volume IC spectrum analyzer
33	I2C SCK	O	I2C bus serial clock signal output
34	I2C SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply pin (+3.3 V)
36	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
37	DAVSS	—	Ground pin
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	I	Key signal input 0
42	VSS	—	Ground pin
43	RCIN0	I	Rotary commander key signal input
44	SA IN	I	Spectrum analyzer data signal input
45	SA CKO	O	Spectrum analyzer clock signal output
46	DOOR IND	O	Disc door indicator control signal output
47	RE IN0	I	Rotary encoder signal input 0
48	RE IN1	I	Rotary encoder signal input 1
49	MD0	I	Operation mode setting pin (Connect to VDD.)

Pin No.	Pin Name	I/O	Pin Description
50	MD1	I	Operation mode setting pin (Connect to VDD.)
51	MD2	I	Operation mode setting pin (Connect to VSS.)
52	KEYACK	I	Key acknowledgment detect signal input
53	TU ATTIN	I	Tuner mute zero cross detect signal input
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)
56	DAVN	I	RDS (Radio Data System) data block synchronized detect signal input
57	NCO	O	Not used. (Open)
58	UNISI	I	SONY bus data signal input
59	UNISO	O	SONY bus data signal output
60	UNISCK	O	SONY bus clock signal output
61 to 63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input
65	FL12V ON	O	12V power supply control signal output for fluorescent indicator tube
66	FSW OUT	O	D/D converter oscillator frequency shift control signal output
67	DD ON	O	3.3V D/D converter power on/off control signal output for fluorescent indicator tube
68	FLASH W	I	Memory mode change signal input Normally “H”: Single chip mode, after reset “L”: flash write mode
69	NCO	O	Not used. (Open)
70	DOOR SW	I	Front panel open/close detect switch signal input
71	$\overline{\text{RC IN1}}$	I	Rotary commander shift key signal input
72	$\overline{\text{ACC IN}}$	I	Accessory power supply detect signal input
73	$\overline{\text{TESTIN}}$	I	Test mode detect signal input
74	$\overline{\text{TELATT}}$	I	Telephone attenuate detect signal input
75	ILLUIN	I	Illumination detect signal input “H”: Illumination off
76	$\overline{\text{AD ON}}$	O	A/D converter power supply control signal output
77	$\overline{\text{RESET}}$	I	CPU reset signal input
78	NCO	O	Not used. (Open)
79	XOUT	O	Low speed operation clock signal output (32.768 kHz)
80	XIN	I	Low speed operation clock signal input (32.768 kHz)
81	VSS1	—	Ground pin
82	OSCIN	I	High speed operation clock signal input (18.432 MHz)
83	OSCOUT	O	High speed operation clock signal output (18.432 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	NCO	O	Not used. (Open)
86	ATT	O	Audio mute control signal output
87	$\overline{\text{BUSON}}$	O	Bus on signal output
88	$\overline{\text{SYSRST}}$	O	System reset signal output
89	EJECT OK SW	O	Eject OK signal output to CD mechanism unit
90	NCO	O	Not used. (Open)
91	WAKE UP	O	Mechanism microcomputer wake up signal output
92	NCO	O	Not used. (Open)
93	Z MUTE	I	Mute signal input
94	NCO	O	Not used. (Open)
95	DEMO SEL	I	DEMO select signal input “H”: DEMO on, “L”: DEMO off
96	CYRIL SEL	I	Cyril correspondence discrimination signal input “L”: No correspondence
97	NCO	O	Not used. (Open)
98	CD ON	I	CD mechanism servo power supply control request signal input
99	$\overline{\text{CDM ON}}$	I	CD mechanism deck power supply control request signal input
100	OPEN MUTE	O	Not used. (Open)

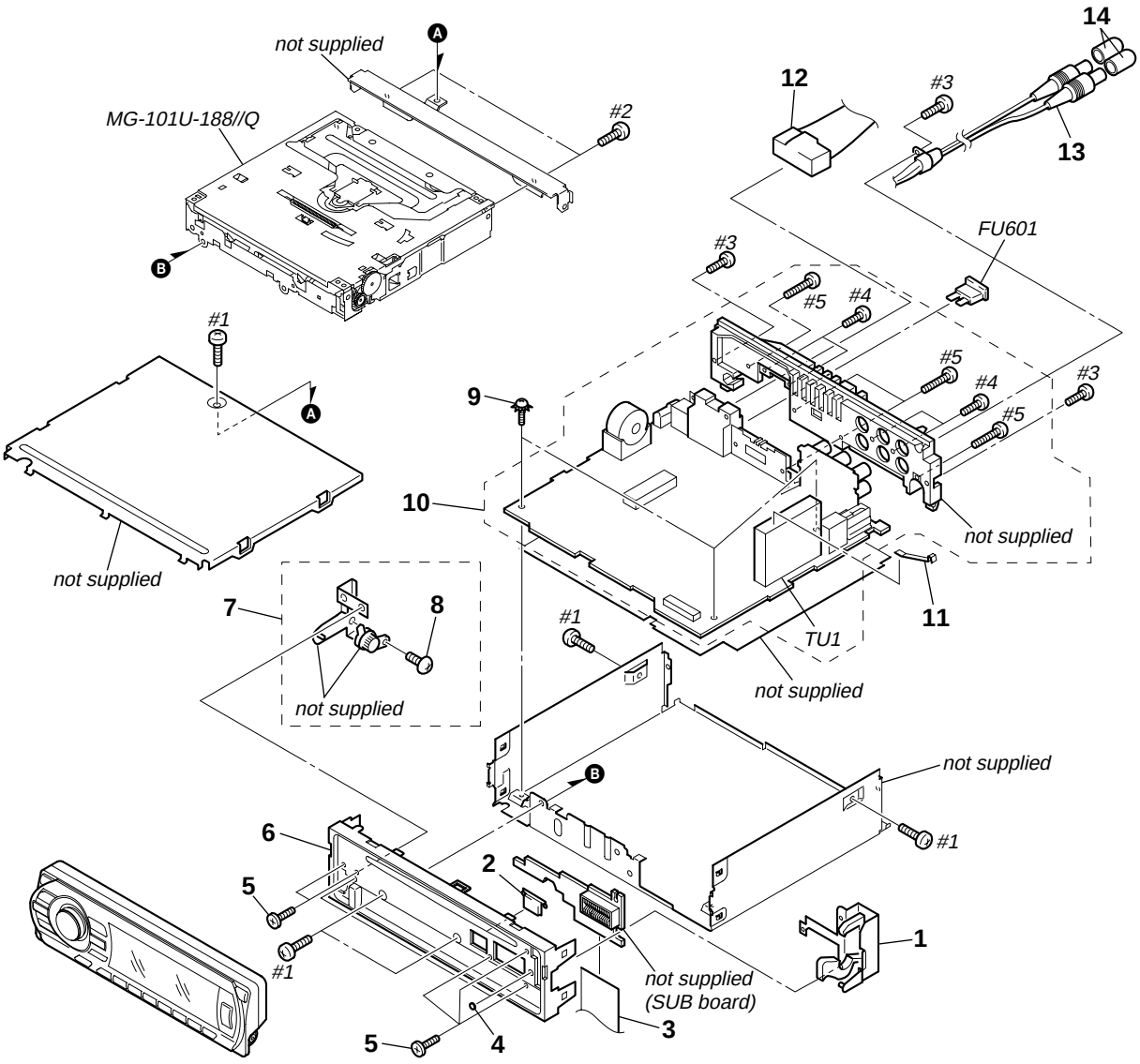
SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

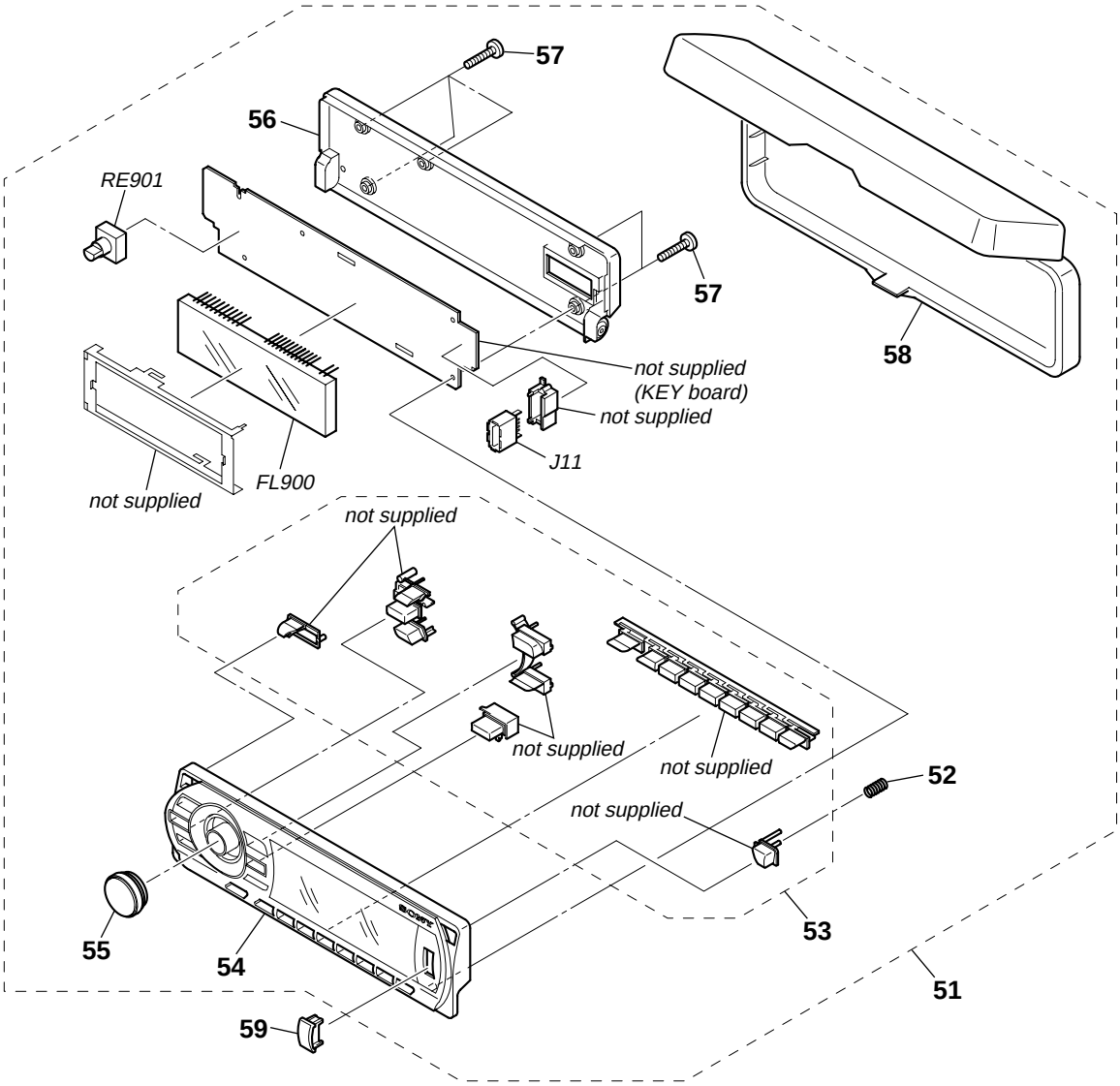
5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-2149-741-1	LOCK ASSY	
2	3-246-441-01	BUTTON (EJECT)	
3	1-833-591-11	CABLE, FLEXIBLE FLAT (20 CORE)	
4	3-260-247-01	CUSHION (SUB PANEL)	
5	3-042-244-01	SCREW (T)	
6	X-2149-726-1	PANEL ASSY, SUB	
7	X-3384-203-1	GEAR ASSY	
8	3-713-786-51	SCREW +P 2X3	
9	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
10	A-1217-699-A	MAIN BOARD, COMPLETE (GT610U/GT616U)	
10	A-1217-728-A	MAIN BOARD, COMPLETE (GT617UE)	

Ref. No.	Part No.	Description	Remark
11	2-021-848-01	SHEET (TU), GROUND	
12	1-831-837-11	CORD (WITH CONNECTOR) (ISO) (POWER)	
13	1-833-887-11	CONNECTION CORD (RCA) (SUB OUT (MONO))	
14	3-264-798-01	CAP	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU1	A-3220-961-B	TUNER UNIT (TUX-032)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#5	7-685-794-09	SCREW +PTT 2.6X10 (S)	

5-2. FRONT PANEL SECTION

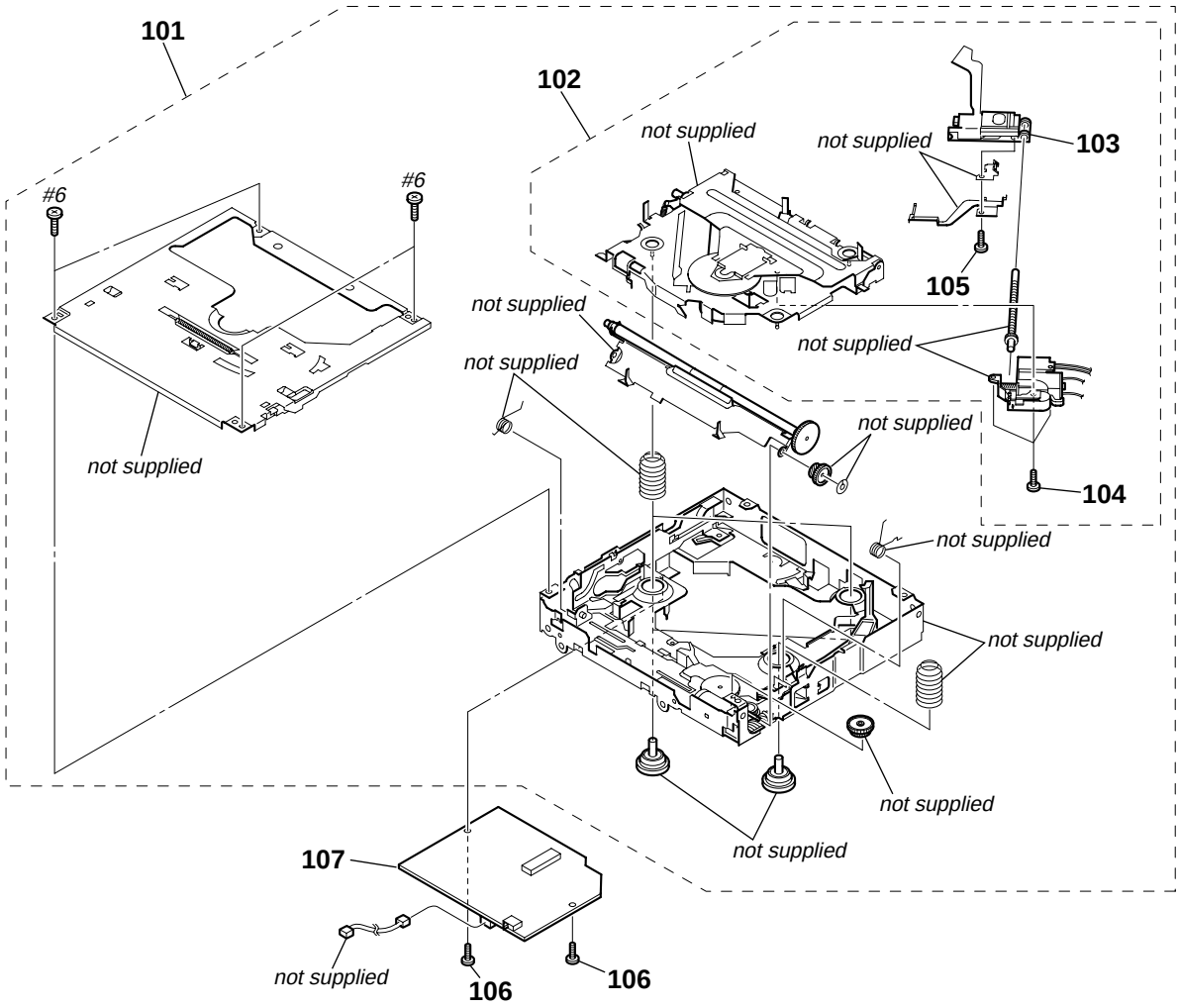


Ref. No.	Part No.	Description	Remark
51	A-1217-701-A	PANEL OVERALL ASSY, FRONT (GT610U)	
51	A-1217-705-A	PANEL OVERALL ASSY, FRONT (GT616U)	
51	A-1217-730-A	PANEL OVERALL ASSY, FRONT (GT617UE)	
52	3-264-712-01	SPRING (OPEN)	
53	X-2159-395-1	BUTTON ASSY (S) (GT610U)	
53	X-2159-397-1	BUTTON ASSY (S) (GT616U/GT617UE)	
54	X-2159-394-1	PANEL (SV) ASSY, FRONT (GT610U)	
54	X-2159-396-1	PANEL (SV) ASSY, FRONT (GT616U)	
54	X-2159-399-1	PANEL (SV) ASSY, FRONT (GT617UE)	

Ref. No.	Part No.	Description	Remark
55	X-2149-198-1	KNOB ASSY (S)	
56	X-2159-462-1	PANEL (SV) ASSY, BACK	
57	3-250-543-21	SCREW (+B P-TITE M2)	
58	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
59	2-686-945-01	CAP (USB)	
FL900	1-519-916-12	INDICATOR TUBE, FLUORESCENT	
J11	1-820-858-11	CONNECTOR, USB (SOCKET) (USB)	
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT/VOLUME)	

5-3. CD MECHANISM SECTION (MG-101U-188//Q)

NOTE: Refer to SUPPLEMENT-1 for disassembly of OPTICAL PICK-UP.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1234-480-A	MECHANICAL BLOCK (U) ASSY		105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
102	A-1177-169-A	DAXEV//Q		106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)		107	A-1206-357-A	SERVO BOARD, COMPLETE	
104	2-626-869-01	SCREW (M2X3), SERRATION		#6	7-627-000-08	SCREW, PRECISION +P 1.7X2.2 TYPE3	

KEY

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
		< CAPACITOR >			
C920	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C921	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C932	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C991	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C992	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
CN901	1-818-141-11	PLUG, CONNECTOR 20P			
		< DIODE >			
D902	8-719-977-12	DIODE DTZ6.8B			
D903	8-719-977-12	DIODE DTZ6.8B			
D904	8-719-977-12	DIODE DTZ6.8B			
D931	8-719-404-50	DIODE MA111-TX			
D971	8-719-420-90	DIODE MA8051-M			
D973	8-719-977-12	DIODE DTZ6.8B			
D976	8-719-977-12	DIODE DTZ6.8B			
D978	8-719-977-12	DIODE DTZ6.8B			
D979	8-719-977-12	DIODE DTZ6.8B			
D981	8-719-057-80	DIODE MA8180-M-TX			
D982	6-501-089-01	DIODE RF101L2STE25			
D983	8-719-420-90	DIODE MA8051-M			
D984	8-719-057-80	DIODE MA8180-M-TX			
D985	8-719-977-12	DIODE DTZ6.8B			
D986	8-719-977-12	DIODE DTZ6.8B			
D989	8-719-977-12	DIODE DTZ6.8B			
D990	8-719-977-12	DIODE DTZ6.8B			
D991	8-719-977-12	DIODE DTZ6.8B			
D992	8-719-977-12	DIODE DTZ6.8B			
D993	8-719-977-12	DIODE DTZ6.8B			
D996	8-719-977-12	DIODE DTZ6.8B			
D997	8-719-058-24	DIODE RB501V-40TE-17			
D998	8-719-404-50	DIODE MA111-TX			
		< JUMPER RESISTOR >			
FB971	1-216-864-11	SHORT CHIP	0		
FB991	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark
		< FLUORESCENT INDICATOR TUBE >	
FL900	1-519-916-12	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC971	6-600-163-01	IC RS-770 (IR)	
* IC980	6-703-107-01	IC SN74LVC2G66DCUR	
		< CONNECTOR >	
J11	1-820-858-11	CONNECTOR, USB (SOCKET) (USB)	
		< DIODE >	
LED902	8-719-053-09	LED SML-310VTT86 (SOURCE)	
LED903	8-719-053-09	LED SML-310VTT86 (▶▶ ▶▶I SEEK+)	
LED904	8-719-053-09	LED SML-310VTT86 (MODE)	
LED906	8-719-053-09	LED SML-310VTT86 (EQ3)	
LED907	8-719-053-09	LED SML-310VTT86 (I◀◀ ◀◀ SEEK–)	
LED908	8-719-053-09	LED SML-310VTT86 (DSO)	
LED909	8-719-053-09	LED SML-310VTT86 (AF/TA)	
LED910	8-719-053-09	LED SML-310VTT86 (6/PAUSE)	
LED911	8-719-053-09	LED SML-310VTT86 (5/BBE MP)	
LED912	8-719-053-09	LED SML-310VTT86 (4/SHUF)	
LED913	8-719-053-09	LED SML-310VTT86 (3/REP)	
LED914	8-719-053-09	LED SML-310VTT86 (2/GP/ALBM +)	
LED915	8-719-053-09	LED SML-310VTT86 (1/GP/ALBM –)	
LED916	8-719-053-09	LED SML-310VTT86 (DSPL)	
LED917	8-719-053-09	LED SML-310VTT86 (PTY)	
LED941	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	
LED942	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	
LED943	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	
LED944	8-719-053-09	LED SML-310VTT86 (RING ILLUMINATION)	
LED952	8-719-078-21	LED SML-310PTT86 (SOURCE)	
LED953	8-719-078-21	LED SML-310PTT86 (▶▶ ▶▶I SEEK+)	
LED954	8-719-078-21	LED SML-310PTT86 (MODE)	
LED956	8-719-078-21	LED SML-310PTT86 (EQ3)	
LED957	8-719-078-21	LED SML-310PTT86 (I◀◀ ◀◀ SEEK–)	
LED958	8-719-078-21	LED SML-310PTT86 (DSO)	
LED959	8-719-078-21	LED SML-310PTT86 (AF/TA)	
LED960	8-719-078-21	LED SML-310PTT86 (6/PAUSE)	
LED961	8-719-078-21	LED SML-310PTT86 (5/BBE MP)	
LED962	8-719-078-21	LED SML-310PTT86 (4/SHUF)	
LED963	8-719-078-21	LED SML-310PTT86 (3/REP)	
LED964	8-719-078-21	LED SML-310PTT86 (2/GP/ALBM +)	
LED965	8-719-078-21	LED SML-310PTT86 (1/GP/ALBM –)	

KEY

Ref. No.	Part No.	Description			Remark
LED966	8-719-078-21	LED SML-310PTT86 (DSPL)			
LED967	8-719-078-21	LED SML-310PTT86 (PTY)			
LED991	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)			
LED992	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)			
LED993	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)			
LED994	8-719-078-21	LED SML-310PTT86 (RING ILLUMINATION)			
		< COIL >			
LF990	1-457-223-11	COIL, COMMON MODE CHOKE			
		< SWITCH >			
LSW901	1-798-017-11	SWITCH, TACTILE (WITH LED) (OFF)			
		< TRANSISTOR >			
Q503	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q941	6-550-752-01	TRANSISTOR DTC614TKT146			
Q942	6-550-752-01	TRANSISTOR DTC614TKT146			
Q991	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q992	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
Q993	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			
		< RESISTOR >			
R901	1-216-047-11	RES-CHIP	820	5%	1/10W
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W
R904	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R906	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R907	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R908	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R909	1-216-821-11	METAL CHIP	1K	5%	1/10W
R910	1-216-821-11	METAL CHIP	1K	5%	1/10W
R911	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R912	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R913	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R914	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R915	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R916	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R921	1-216-027-00	RES-CHIP	120	5%	1/10W
R922	1-216-023-00	RES-CHIP	82	5%	1/10W
R923	1-216-025-11	RES-CHIP	100	5%	1/10W
R924	1-216-021-00	RES-CHIP	68	5%	1/10W
R925	1-216-027-00	RES-CHIP	120	5%	1/10W
R926	1-216-023-00	RES-CHIP	82	5%	1/10W
R927	1-216-025-11	RES-CHIP	100	5%	1/10W
R928	1-216-021-00	RES-CHIP	68	5%	1/10W
R929	1-216-027-00	RES-CHIP	120	5%	1/10W
R930	1-216-023-00	RES-CHIP	82	5%	1/10W
R931	1-216-025-11	RES-CHIP	100	5%	1/10W
R932	1-216-021-00	RES-CHIP	68	5%	1/10W
R933	1-216-033-00	RES-CHIP	220	5%	1/10W
R934	1-216-029-00	RES-CHIP	150	5%	1/10W
R935	1-216-027-00	RES-CHIP	120	5%	1/10W
R936	1-216-027-00	RES-CHIP	120	5%	1/10W
R937	1-216-025-11	RES-CHIP	100	5%	1/10W
R938	1-216-027-00	RES-CHIP	120	5%	1/10W
R939	1-216-029-00	RES-CHIP	150	5%	1/10W
R940	1-216-030-00	RES-CHIP	160	5%	1/10W
R941	1-216-031-00	RES-CHIP	180	5%	1/10W
R942	1-216-027-00	RES-CHIP	120	5%	1/10W
R943	1-216-029-00	RES-CHIP	150	5%	1/10W
R944	1-216-030-00	RES-CHIP	160	5%	1/10W
R945	1-216-031-00	RES-CHIP	180	5%	1/10W
R946	1-216-027-00	RES-CHIP	120	5%	1/10W
R947	1-216-029-00	RES-CHIP	150	5%	1/10W
R948	1-216-030-00	RES-CHIP	160	5%	1/10W
R949	1-216-031-00	RES-CHIP	180	5%	1/10W
R950	1-216-027-00	RES-CHIP	120	5%	1/10W
R951	1-216-029-00	RES-CHIP	150	5%	1/10W
R952	1-216-030-00	RES-CHIP	160	5%	1/10W
R953	1-216-031-00	RES-CHIP	180	5%	1/10W
R954	1-216-027-00	RES-CHIP	120	5%	1/10W
R955	1-216-029-00	RES-CHIP	150	5%	1/10W
R956	1-216-030-00	RES-CHIP	160	5%	1/10W
R957	1-216-031-00	RES-CHIP	180	5%	1/10W
R958	1-216-027-00	RES-CHIP	120	5%	1/10W
R959	1-216-047-11	RES-CHIP	820	5%	1/10W
R962	1-216-864-11	SHORT CHIP	0		
R963	1-216-864-11	SHORT CHIP	0		
R964	1-216-001-00	RES-CHIP	10	5%	1/10W
R965	1-216-001-00	RES-CHIP	10	5%	1/10W
R966	1-216-833-11	METAL CHIP	10K	5%	1/10W
R967	1-216-833-11	METAL CHIP	10K	5%	1/10W
R968	1-216-864-11	SHORT CHIP	0		
R969	1-216-833-11	METAL CHIP	10K	5%	1/10W
R971	1-216-811-11	METAL CHIP	150	5%	1/10W
R972	1-216-809-11	METAL CHIP	100	5%	1/10W
R973	1-216-811-11	METAL CHIP	150	5%	1/10W
R981	1-216-864-11	SHORT CHIP	0		
R982	1-216-864-11	SHORT CHIP	0		
R983	1-216-864-11	SHORT CHIP	0		
R984	1-216-809-11	METAL CHIP	100	5%	1/10W
R985	1-216-809-11	METAL CHIP	100	5%	1/10W
R986	1-216-809-11	METAL CHIP	100	5%	1/10W
R987	1-216-845-11	METAL CHIP	100K	5%	1/10W
R988	1-216-821-11	METAL CHIP	1K	5%	1/10W
R989	1-216-821-11	METAL CHIP	1K	5%	1/10W
R990	1-216-821-11	METAL CHIP	1K	5%	1/10W
R991	1-216-833-11	METAL CHIP	10K	5%	1/10W
R992	1-216-833-11	METAL CHIP	10K	5%	1/10W
R993	1-216-833-11	METAL CHIP	10K	5%	1/10W
R994	1-216-845-11	METAL CHIP	100K	5%	1/10W
R995	1-216-845-11	METAL CHIP	100K	5%	1/10W
R996	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< ROTARY ENCODER >			
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT/VOLUME)			
		< SWITCH >			
S902	1-786-653-21	SWITCH, TACTILE (SOURCE)			
S903	1-786-653-21	SWITCH, TACTILE (►► ►►I SEEK+)			
S904	1-786-653-21	SWITCH, TACTILE (MODE)			
S906	1-786-653-21	SWITCH, TACTILE (EQ3)			
S907	1-786-653-21	SWITCH, TACTILE (I◄◄ ◄◄ SEEK–)			

KEY **MAIN**

Ref. No.	Part No.	Description			Remark
S908	1-786-653-21	SWITCH, TACTILE (DSO)			
S909	1-786-653-21	SWITCH, TACTILE (AF/TA)			
S910	1-786-653-21	SWITCH, TACTILE (6/PAUSE)			
S911	1-786-653-21	SWITCH, TACTILE (5/BBE MP)			
S912	1-786-653-21	SWITCH, TACTILE (4/SHUF)			
S913	1-786-653-21	SWITCH, TACTILE (3/REP)			
S914	1-786-653-21	SWITCH, TACTILE (2/GP/ALBM +)			
S915	1-786-653-21	SWITCH, TACTILE (1/GP/ALBM –)			
S916	1-786-653-21	SWITCH, TACTILE (DSPL)			
S917	1-786-653-21	SWITCH, TACTILE (PTY)			
S918	1-798-032-11	SWITCH, DETECTION (OPEN/CLOSE)			
**********					
	A-1217-699-A	MAIN BOARD, COMPLETE (GT610U/GT616U)			
	A-1217-728-A	MAIN BOARD, COMPLETE (GT617UE)			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C1	1-126-963-11	ELECT	4.7uF	20%	50V
C2	1-126-947-11	ELECT	47uF	20%	35V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-126-947-11	ELECT	47uF	20%	35V
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C9	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C14	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C50	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C56	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C57	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C58	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C60	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C61	1-126-947-11	ELECT	47uF	20%	35V
C62	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C301	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C303	1-128-551-11	ELECT	22uF	20%	63V
C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C305	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C310	1-126-916-11	ELECT	1000uF	20%	6.3V
C312	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C313	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C314	1-124-261-00	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-124-261-00	ELECT	10uF	20%	50V
C317	1-124-257-00	ELECT	2.2uF	20%	50V
C318	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C319	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C320	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C323	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C324	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C325	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C327	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C328	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C360	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C361	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C362	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C363	1-124-257-00	ELECT	2.2uF	20%	50V
C364	1-124-257-00	ELECT	2.2uF	20%	50V
C401	1-124-584-00	ELECT	100uF	20%	10V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-126-176-11	ELECT	220uF	20%	10V
C405	1-124-248-00	ELECT	22uF	20%	25V
C410	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C413	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C414	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C418	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C419	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C421	1-126-791-11	ELECT	10uF	20%	35V
C422	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C423	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C429	1-124-261-00	ELECT	10uF	20%	50V
C430	1-124-261-00	ELECT	10uF	20%	50V
C431	1-126-791-11	ELECT	10uF	20%	35V
C432	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C441	1-126-791-11	ELECT	10uF	20%	35V
C442	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C443	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C446	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C447	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C452	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C454	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C461	1-126-791-11	ELECT	10uF	20%	35V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C466	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C470	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C471	1-126-791-11	ELECT	10uF	20%	35V
C472	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C480	1-136-159-00	FILM	0.033uF	5%	50V
C481	1-136-159-00	FILM	0.033uF	5%	50V
C482	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C483	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C484	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C485	1-104-665-11	ELECT	100uF	20%	25V
C487	1-126-791-11	ELECT	10uF	20%	35V
C491	1-124-589-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C501	1-128-057-11	ELECT	330uF	20%	6.3V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-124-584-00	ELECT	100uF	20%	10V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-124-584-00	ELECT	100uF	20%	10V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C508	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C510	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C515	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C516	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C600	1-126-935-11	ELECT	470uF	20%	16V
C601	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C701	1-131-868-81	ELECT	3300uF	20%	16V
C702	1-126-160-11	ELECT	1uF	20%	50V
C703	1-126-163-11	ELECT	4.7uF	20%	50V
C704	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C801	1-126-933-11	ELECT	100uF	20%	16V
C802	1-126-934-11	ELECT	220uF	20%	16V
C803	1-104-665-11	ELECT	100uF	20%	25V
C804	1-126-963-11	ELECT	4.7uF	20%	50V
C805	1-126-933-11	ELECT	100uF	20%	16V
C806	1-126-934-11	ELECT	220uF	20%	16V
C809	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C810	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C811	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C812	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C816	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C817	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C819	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C821	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C822	1-126-933-11	ELECT	100uF	20%	16V
C830	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C902	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C998	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >			
CN300	1-774-701-21	PIN, CONNECTOR 16P			
CN350	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P			
* CN410	1-564-506-11	PLUG, CONNECTOR 3P			
CN802	1-569-913-11	SOCKET, CONNECTOR 20P			
CNJ400	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)			
		< DIODE >			
D2	8-719-977-03	DIODE DTZ5.6B			
D101	8-719-977-12	DIODE DTZ6.8B			
D102	8-719-420-90	DIODE MA8051-M			
D103	8-719-057-80	DIODE MA8180-M-TX			
D104	8-719-057-80	DIODE MA8180-M-TX			

Ref. No.	Part No.	Description			Remark
D105	8-719-420-90	DIODE MA8051-M			
D106	8-719-420-90	DIODE MA8051-M			
D107	8-719-420-90	DIODE MA8051-M			
D108	8-719-420-90	DIODE MA8051-M			
D109	8-719-420-90	DIODE MA8051-M			
D110	8-719-420-90	DIODE MA8051-M			
D114	8-719-420-90	DIODE MA8051-M			
D115	8-719-978-33	DIODE DTZ-TT11-6.8B			
D118	8-719-977-12	DIODE DTZ6.8B			
D119	8-719-057-80	DIODE MA8180-M-TX			
D120	8-719-420-90	DIODE MA8051-M			
D301	6-500-522-01	DIODE 10EDB40-TA1B2			
D302	6-500-522-01	DIODE 10EDB40-TA1B2			
D303	6-500-522-01	DIODE 10EDB40-TA1B2			
D304	6-500-522-01	DIODE 10EDB40-TA1B2			
D305	6-500-522-01	DIODE 10EDB40-TA1B2			
D306	6-500-522-01	DIODE 10EDB40-TA1B2			
D307	6-500-522-01	DIODE 10EDB40-TA1B2			
D308	6-500-522-01	DIODE 10EDB40-TA1B2			
D309	6-500-522-01	DIODE 10EDB40-TA1B2			
D310	6-500-522-01	DIODE 10EDB40-TA1B2			
D311	6-500-522-01	DIODE 10EDB40-TA1B2			
D312	6-500-522-01	DIODE 10EDB40-TA1B2			
D400	6-501-013-01	DIODE BAT54ALT1G			
D471	8-719-977-12	DIODE DTZ6.8B			
D491	8-719-404-50	DIODE MA111-TX			
D501	8-719-050-37	DIODE M1MA152WA-T1			
D502	8-719-060-48	DIODE RB751V-40TE-17			
D602	8-719-057-80	DIODE MA8180-M-TX			
D603	8-719-422-67	DIODE MA8062-H			
D604	8-719-057-80	DIODE MA8180-M-TX			
D605	8-719-057-80	DIODE MA8180-M-TX			
D606	8-719-072-70	DIODE MA2ZD14001S0			
D607	6-501-571-01	DIODE 1N5404-C311-3			
D701	8-719-057-80	DIODE MA8180-M-TX			
D702	8-719-057-80	DIODE MA8180-M-TX			
D703	8-719-420-90	DIODE MA8051-M			
D704	8-719-057-80	DIODE MA8180-M-TX			
D705	8-719-081-97	DIODE MMDL914T1			
D801	6-501-657-01	DIODE MA24D5000BS0			
D802	8-719-420-90	DIODE MA8051-M			
D903	8-719-057-80	DIODE MA8180-M-TX			
		< FERRITE BEAD >			
FB401	1-216-295-11	SHORT CHIP	0		
FB402	1-216-864-11	SHORT CHIP	0		
FB403	1-216-864-11	SHORT CHIP	0		
FB404	1-216-295-11	SHORT CHIP	0		
FB405	1-216-864-11	SHORT CHIP	0		
FB406	1-216-864-11	SHORT CHIP	0		
FB407	1-216-295-11	SHORT CHIP	0		
FB408	1-469-876-11	INDUCTOR, FERRITE BEAD			
FB801	1-216-864-11	SHORT CHIP	0		
FB802	1-216-864-11	SHORT CHIP	0		
FB803	1-216-864-11	SHORT CHIP	0		
FB804	1-216-821-11	METAL CHIP	1K	5%	1/10W

MAIN

Ref. No.	Part No.	Description	Remark
		< IC >	
IC50	6-803-747-01	IC TDA7333013TR	
IC300	6-705-359-02	IC TDA8588AJ/N2/R1 (GT617UE)	
IC300	6-705-359-11	IC TDA8588AJ/N2/R1/M5 (GT610U/GT616U)	
IC401	6-710-065-01	IC BD3442FS-E2	
IC501	6-807-002-01	IC MB90F046PF-G-102E1 (GT610U/GT616U)	
IC501	6-807-259-01	IC MB90F046PF-G-104E1 (GT617UE)	
IC502	6-704-529-01	IC XC6206P332PR	
IC601	6-703-884-01	IC BA8271F-E2	
IC602	6-703-224-01	IC S-80828CNNB-B8NT2G	
IC801	6-710-493-01	IC NJM2370U1-12-TE2	
IC802	6-707-911-01	IC BD9778HFP	
IC803	6-710-624-01	IC TPS2051BDRG4	
IC804	8-759-460-72	IC BA033FP-E2	
		< JACK >	
J1	1-815-185-13	JACK (ANTENNA)	
J370	1-566-822-41	JACK (REMOTE IN)	
J451	1-774-700-41	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)	
		< JUMPER RESISTOR >	
JC3	1-216-864-11	SHORT CHIP 0	
JC9	1-216-295-11	SHORT CHIP 0	
JC32	1-216-864-11	SHORT CHIP 0	
JC53	1-216-864-11	SHORT CHIP 0	
JC90	1-216-296-11	SHORT CHIP 0	
JC300	1-216-296-11	SHORT CHIP 0	
JC301	1-216-296-11	SHORT CHIP 0	
JC302	1-216-296-11	SHORT CHIP 0	
JC304	1-216-864-11	SHORT CHIP 0	
JC305	1-216-296-11	SHORT CHIP 0	
JC350	1-216-296-11	SHORT CHIP 0	
JC400	1-216-295-11	SHORT CHIP 0	
JC429	1-216-296-11	SHORT CHIP 0	
JC490	1-216-296-11	SHORT CHIP 0	
JC491	1-216-296-11	SHORT CHIP 0	
JC492	1-216-864-11	SHORT CHIP 0	
JC493	1-216-295-11	SHORT CHIP 0	
JC494	1-216-864-11	SHORT CHIP 0	
JC495	1-216-864-11	SHORT CHIP 0	
JC501	1-216-296-11	SHORT CHIP 0	
JC503	1-216-296-11	SHORT CHIP 0	
JC504	1-216-296-11	SHORT CHIP 0	
JC506	1-216-864-11	SHORT CHIP 0	
JC508	1-216-296-11	SHORT CHIP 0	
JC510	1-216-864-11	SHORT CHIP 0	
JC511	1-216-864-11	SHORT CHIP 0	
JC512	1-216-864-11	SHORT CHIP 0	
JC514	1-216-864-11	SHORT CHIP 0	
JC515	1-216-864-11	SHORT CHIP 0	
JC516	1-216-864-11	SHORT CHIP 0	
JC518	1-216-296-11	SHORT CHIP 0	
JC519	1-216-296-11	SHORT CHIP 0	
JC522	1-216-295-11	SHORT CHIP 0	
JC523	1-216-295-11	SHORT CHIP 0	
JC524	1-216-296-11	SHORT CHIP 0	

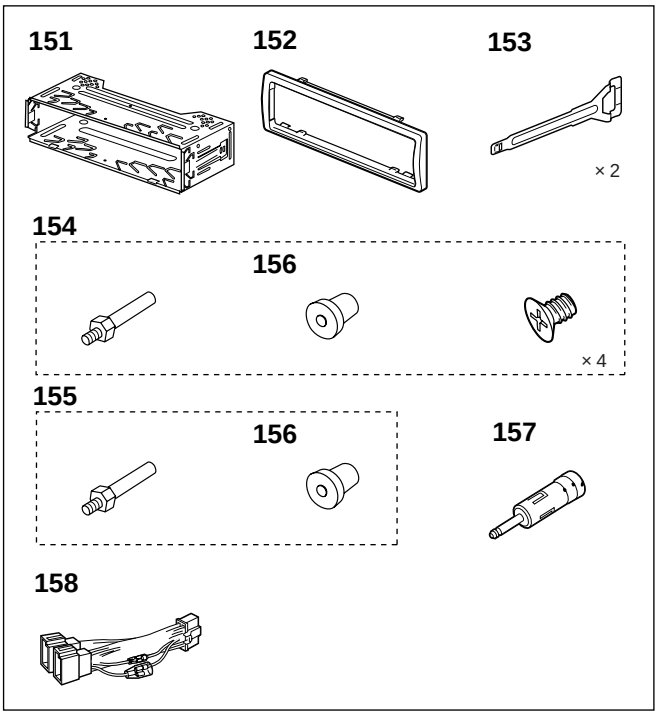
Ref. No.	Part No.	Description	Remark
JC600	1-216-864-11	SHORT CHIP 0	
JC602	1-216-296-11	SHORT CHIP 0	
JC603	1-216-296-11	SHORT CHIP 0	
JC804	1-216-295-11	SHORT CHIP 0	
JC806	1-216-864-11	SHORT CHIP 0	
JC997	1-216-864-11	SHORT CHIP 0	
JC998	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
JC999	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L1	1-500-245-11	INDUCTOR, FERRITE BEAD	
L2	1-414-595-11	INDUCTOR, FERRITE BEAD	
L3	1-414-595-11	INDUCTOR, FERRITE BEAD	
L4	1-469-844-11	INDUCTOR 2.2uH	
L101	1-410-509-11	INDUCTOR 10uH	
L300	1-456-617-11	COIL, CHOKE	
L301	1-216-864-11	SHORT CHIP 0	
L302	1-216-864-11	SHORT CHIP 0	
L303	1-216-864-11	SHORT CHIP 0	
L500	1-469-844-11	INDUCTOR 2.2uH	
L801	1-457-418-11	COIL, CHOKE	
L802	1-457-378-11	COIL, CHOKE	
L803	1-457-418-11	COIL, CHOKE	
		< TRANSISTOR >	
Q1	1-801-806-11	TRANSISTOR DTC144EKA	
Q3	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q50	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q420	6-550-752-01	TRANSISTOR DTC614TKT146	
Q423	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q424	6-550-752-01	TRANSISTOR DTC614TKT146	
Q426	6-550-752-01	TRANSISTOR DTC614TKT146	
Q430	6-550-752-01	TRANSISTOR DTC614TKT146	
Q440	6-550-752-01	TRANSISTOR DTC614TKT146	
Q460	6-550-752-01	TRANSISTOR DTC614TKT146	
Q470	6-550-752-01	TRANSISTOR DTC614TKT146	
Q471	6-550-683-01	FET RJK005N03-T146	
Q491	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q492	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q501	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q589	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q590	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q605	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q703	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q801	1-801-806-11	TRANSISTOR DTC144EKA	
		< RESISTOR >	
R1	1-216-809-11	METAL CHIP 100 5%	1/10W
R2	1-216-839-11	METAL CHIP 33K 5%	1/10W
R3	1-216-843-11	METAL CHIP 68K 5%	1/10W
R4	1-216-839-11	METAL CHIP 33K 5%	1/10W
R5	1-216-843-11	METAL CHIP 68K 5%	1/10W
R6	1-414-595-11	INDUCTOR, FERRITE BEAD	
R7	1-414-595-11	INDUCTOR, FERRITE BEAD	
R8	1-216-839-11	METAL CHIP 33K 5%	1/10W
R9	1-216-843-11	METAL CHIP 68K 5%	1/10W

Ref. No.	Part No.	Description			Remark
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W
R11	1-216-864-11	SHORT CHIP	0		
R12	1-414-595-11	INDUCTOR, FERRITE BEAD			
R13	1-414-595-11	INDUCTOR, FERRITE BEAD			
R14	1-216-864-11	SHORT CHIP	0		
R52	1-216-845-11	METAL CHIP	100K	5%	1/10W
R53	1-216-797-11	METAL CHIP	10	5%	1/10W
R54	1-414-595-11	INDUCTOR, FERRITE BEAD			
R55	1-216-797-11	METAL CHIP	10	5%	1/10W
R57	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R58	1-216-821-11	METAL CHIP	1K	5%	1/10W
R301	1-216-811-11	METAL CHIP	150	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W
R370	1-216-809-11	METAL CHIP	100	5%	1/10W
R371	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-813-11	METAL CHIP	220	5%	1/10W
R402	1-216-813-11	METAL CHIP	220	5%	1/10W
R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R416	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R419	1-216-833-11	METAL CHIP	10K	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-833-11	METAL CHIP	10K	5%	1/10W
R423	1-216-845-11	METAL CHIP	100K	5%	1/10W
R424	1-216-833-11	METAL CHIP	10K	5%	1/10W
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W
R433	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R453	1-216-864-11	SHORT CHIP	0		
R454	1-216-864-11	SHORT CHIP	0		
R455	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-821-11	METAL CHIP	1K	5%	1/10W
R480	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R481	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R482	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R483	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R484	1-216-821-11	METAL CHIP	1K	5%	1/10W
R491	1-216-805-11	METAL CHIP	47	5%	1/10W
R500	1-216-817-11	METAL CHIP	470	5%	1/10W
R502	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT610U/GT616U)
R504	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT617UE)
R505	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT610U/GT616U)
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT617UE)
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R513	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-809-11	METAL CHIP	100	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W
R516	1-216-809-11	METAL CHIP	100	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W
R519	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R520	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R521	1-216-821-11	METAL CHIP	1K	5%	1/10W
R522	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R525	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-841-11	METAL CHIP	47K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-845-11	METAL CHIP	100K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R534	1-216-845-11	METAL CHIP	100K	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R536	1-216-811-11	METAL CHIP	150	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
R539	1-216-809-11	METAL CHIP	100	5%	1/10W
R540	1-216-809-11	METAL CHIP	100	5%	1/10W
R541	1-216-849-11	METAL CHIP	220K	5%	1/10W
R542	1-216-845-11	METAL CHIP	100K	5%	1/10W
R543	1-216-845-11	METAL CHIP	100K	5%	1/10W
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R547	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R548	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R549	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R551	1-216-864-11	SHORT CHIP	0		
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
R556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R557	1-216-809-11	METAL CHIP	100	5%	1/10W
R558	1-216-809-11	METAL CHIP	100	5%	1/10W
R559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT617UE)
R562	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT610U/GT616U)
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R570	1-216-864-11	SHORT CHIP	0		
R571	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R572	1-216-845-11	METAL CHIP	100K	5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R574	1-216-845-11	METAL CHIP	100K	5%	1/10W
R600	1-216-864-11	SHORT CHIP	0		
R601	1-216-851-11	METAL CHIP	330K	5%	1/10W
R602	1-216-851-11	METAL CHIP	330K	5%	1/10W
R603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W
R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W
R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R707	1-216-841-11	METAL CHIP	47K	5%	1/10W
R708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R709	1-216-049-11	RES-CHIP	1K	5%	1/10W
R710	1-249-425-11	CARBON	4.7K	5%	1/4W
R711	1-216-845-11	METAL CHIP	100K	5%	1/10W
R712	1-216-837-11	METAL CHIP	22K	5%	1/10W
R801	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R802	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R803	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R804	1-218-907-11	METAL CHIP	330K	0.5%	1/10W
R805	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R808	1-216-821-11	METAL CHIP	1K	5%	1/10W
R809	1-216-821-11	METAL CHIP	1K	5%	1/10W
R810	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R811	1-216-821-11	METAL CHIP	1K	5%	1/10W
R812	1-216-833-11	METAL CHIP	10K	5%	1/10W
R813	1-216-821-11	METAL CHIP	1K	5%	1/10W
R830	1-216-797-11	METAL CHIP	10	5%	1/10W
		< SWITCH >			
S102	1-786-458-11	SWITCH, PUSH (1 KEY) (NOSE DET)			
S103	1-692-431-21	SWITCH, TACTILE (RESET)			
		< THERMISTOR (POSITIVE) >			
TH400	1-803-350-21	THERMISTOR, POSITIVE			
		< TUNER UNIT >			
TU1	A-3220-961-B	TUNER UNIT (TUX-032)			
		< VIBRATOR >			
X50	1-813-532-11	VIBRATOR, CRYSTAL (8.664MHz)			
X500	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)			
X501	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
	A-1206-357-A	SERVO BOARD, COMPLETE			
		**********			
**********					

Ref. No.	Part No.	Description			Remark
		SUB BOARD			
		**********			
	1-833-591-11	CABLE, FLEXIBLE FLAT (20 CORE)			
		< CAPACITOR >			
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN201	1-818-142-11	SOCKET, CONNECTOR 20P			
CN203	1-691-550-11	PIN, CONNECTOR (1.5mm) (SMD) 3P			
		< DIODE >			
D203	8-719-420-90	DIODE MA8051-M			
D204	8-719-420-90	DIODE MA8051-M			
LED201	8-719-053-09	LED SML-310VTT86 (CD INDICATOR)			(GT610U/GT616U)
LED201	8-719-078-21	LED SML-310PTT86 (CD INDICATOR)			(GT617UE)
LED202	8-719-053-09	LED SML-310VTT86 (⏏) (GT610U/GT616U)			
LED202	8-719-078-21	LED SML-310PTT86 (⏏) (GT617UE)			
		< RESISTOR >			
R201	1-216-812-11	METAL CHIP	180	5%	1/10W
R202	1-216-815-11	METAL CHIP	330	5%	1/10W
R203	1-216-797-11	METAL CHIP	10	5%	1/10W
R204	1-216-797-11	METAL CHIP	10	5%	1/10W
R205	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S201	1-786-653-21	SWITCH, TACTILE (⏏)			
**********					
		MISCELLANEOUS			
		**********			
12	1-831-837-11	CORD (WITH CONNECTOR) (ISO) (POWER)			
13	1-833-887-11	CONNECTION CORD (RCA) (SUB OUT (MONO))			
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)			
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
**********					
		ACCESSORIES			
		**********			
	1-479-077-13	REMOTE COMMANDER (RM-X151)			
	2-548-729-01	LID, BATTERY CASE (for RM-X151)			
	2-888-758-31	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH)			(GT610U/GT616U)
	2-888-758-41	MANUAL, INSTRUCTION (ENGLISH,RUSSIAN)			(GT617UE)
	2-888-759-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH)			(GT610U/GT616U)
	2-888-759-41	MANUAL, INSTRUCTION, INSTALL (ENGLISH, RUSSIAN)			(GT617UE)
	X-2149-228-2	CASE ASSY (for FRONT PANEL)			
**********					

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
151	X-3382-647-1	FRAME ASSY, FITTING	
152	2-638-099-01	COLLAR	
153	3-246-471-01	KEY (FRAME)	
154	X-3381-154-1	SCREW ASSY (BS4), FITTING (GT617UE)	
155	X-3382-926-1	SCREW ASSY (BS), FITTING (GT610U/GT616U)	
156	3-349-410-11	BUSHING	
157	1-465-459-31	ADAPTOR, ANTENNA	
158	1-831-837-11	CORD (WITH CONNECTOR) (ISO) (POWER)	



MEMO

CDX-GT610U/GT616U/ GT617UE

SONY

SERVICE MANUAL

AEP Model
UK Model
CDX-GT610U/GT616U
East European Model
CDX-GT617UE

Ver. 1.1 2007.03

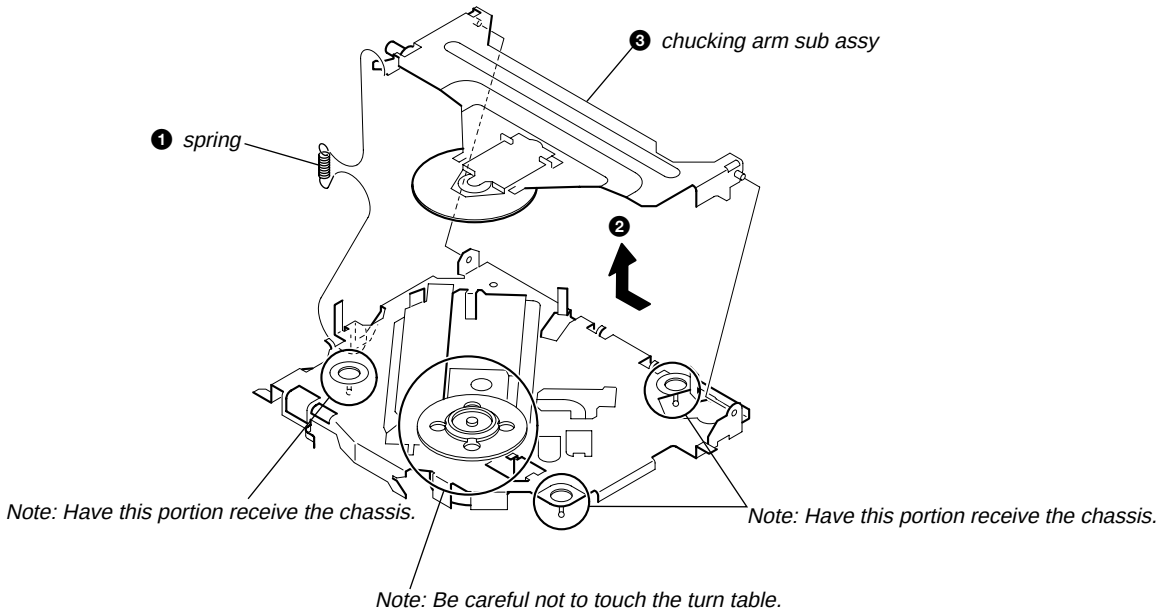
SUPPLEMENT-1

File this supplement with the service manual.

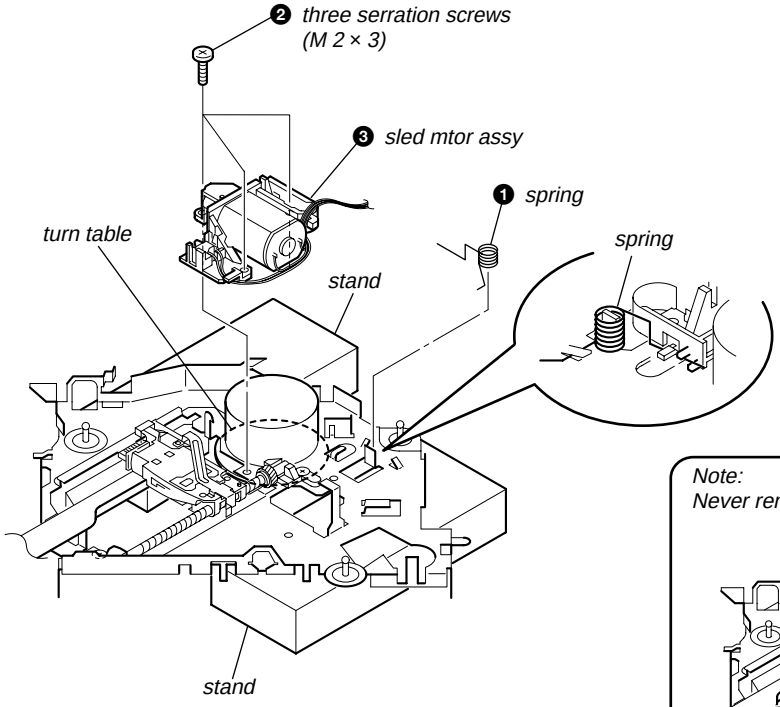
Subject: Notes for removal of the OPTICAL PICK-UP added.

DISASSEMBLY

1. CHUCKING ARM SUB ASSY

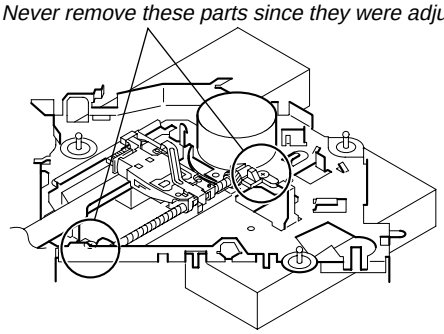

❸ chucking arm sub assy
❶ spring
❷
Note: Have this portion receive the chassis.
Note: Have this portion receive the chassis.
Note: Be careful not to touch the turn table.

2. SLED MOTOR ASSY

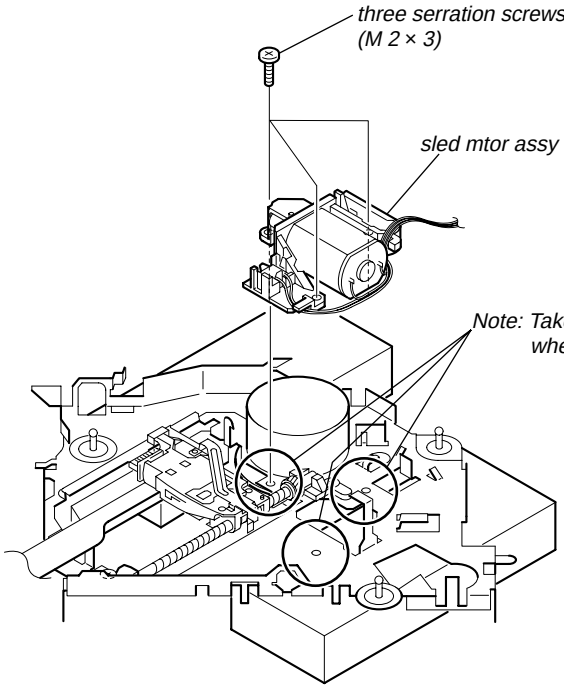


Note: Place the stand with care not to touch the turn table.

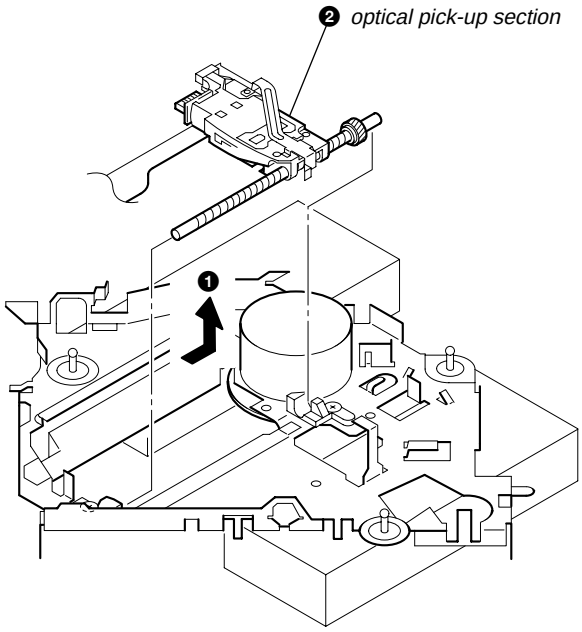
Note:
Never remove these parts since they were adjusted.

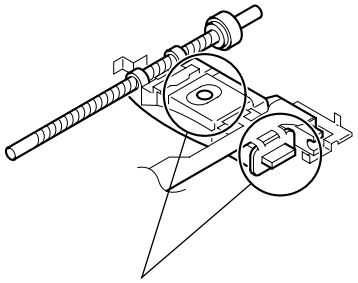


Note for Assembly


three serration screws
(M 2 × 3)
sled mtor assy
Note: Take care to prevent the chassis from being bent
when tightening the three machine screws.

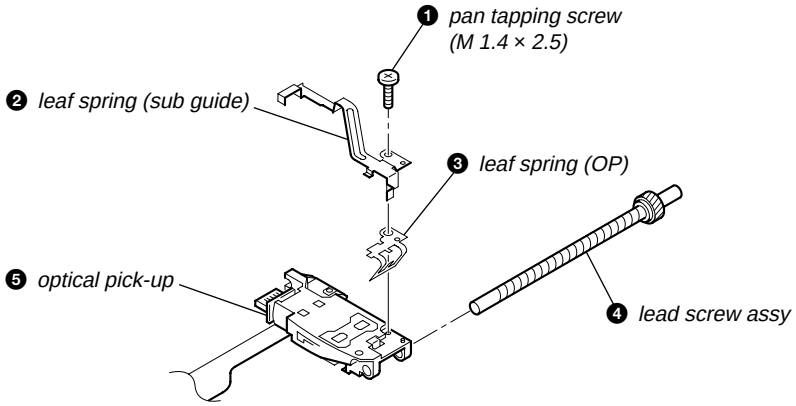
3. OPTICAL PICK-UP SECTION



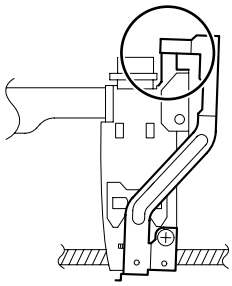


Note: Be careful not to touch the lens and hologram terminal when removing the optical pick-up section.

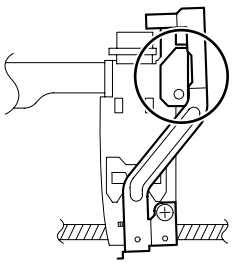
4. OPTICAL PICK-UP



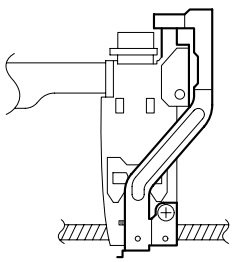
Notes for Assembly



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



There is space at the end of the leaf spring (sub guide) to avoid contact with the slide.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2006.11	New
1.1	2007.03	Change of initial illumination color of CDX-GT617UE. Notes for removal of the OPTICAL PICK-UP added. (SUPPLEMENT-1) (ECN-ECC04028/ECC08328, ENG-07003)